=> d his

(FILE 'HOME' ENTERED AT 15:16:21 ON 16 APR 2003)

FILE 'CAPLUS' ENTERED AT 15:16:27 ON 16 APR 2003
L1 123 S (ANGIOTENSIN II OR AII) AND (CEREBROVASCULAR OR CEREBRAL INFA

=> d 1-123 cbib abs kwic

L1 ANSWER 1 OF 123 CAPLUS COPYRIGHT 2003 ACS
2003:286160 Relationship between oxidized low density lipoprotein and angiotensin II in pathogenesis of acute cerebral infarction. Wang, Tongyu: Zhang, Yanzong (Department of Internal Medicine, Tianjin Bohal Oil Hospital, Tianjin, 300452, Peop. Rep. China). Tianjin Tiyao. 30(9). 530-532 (Chinese) 2002. CODEN: TIYADG. ISSN: 0253-9896. Publisher: Tianjin Yixue Zazhishe.

AB The relationship between oxidized low d. lipoprotein and angiotensin II (Angil) in pathogenesis of acute cerebral infarction was studied. The levels of plasma ox-LDL and Angil were obsd. in 47 patients with acute cerebral infarction and patients with hypertension, and 48 normal controls. The levels of plasma ox-LDL and Angil between acute cerebral infarction and hypertension were higher than those in controls (9-0.10). The level of plasma ox-LDL and Angil between acute cerebral infarction and hypertension were not different (P-0.05). The level of Angil in acute cerebral infarction was higher than that in hypertension (P-0.05). The ox-LDL conco. had a pos. correlation erefbral infarction with correlation coeff. was 0.476 5 (P-0.001). The rise of plasma ox-LDL and Angil might accelerate the processes of atherosclerosis and cerebral infarction. and these two factors had a pos. correlation each other.

TI Relationship between oxidized low density lipoprotein and angiotensin III in pathogenesis of acute cerebral infarction.

AB The relationship between oxidized low d. lipoprotein and

infarction The relationship between oxidized low d. lipoprotein and angiotensin II (Angil) in pathogenesis of acute cerebral infarction was studied. The levels of plasma ox-LDL and AngII were obsd. in 47 patients with acute cerebral infarction. 30 patients with hypertension, and 48 normal controls. The levels of plasma ox-LDL and Angil in acute cerebral infarction and hypertension were higher than those in controls (P<0.01). The levels of plasma ox-LDL and Angil between acute cerebral infarction and hypertension were not different (P>0.05). The level of Angil in acute cerebral infarction was higher than that in hypertension (P<0.05). The ox-LDL concn. had a pos. correlation with Angil concn. in acute cerebral infarction, which correlation coeff. was 0.476 5 (P<0.001). The rise of plasma ox-LDL and Angil might accelerate the processes of atherosclerosis and cerebral infarction, and these two factors had a pos. correlation each other. oxidized low density lipoprotein angiotensin II: cerebral infarction. The relationship between oxidized low d. lipoprotein and

cerebral infarction

L1 ANSWER 3 OF 123 CAPLUS COPYRIGHT 2003 ACS 2002:937235 Document No. 138:236198 Polymorphism of renin-angiotensin system genes in dialysis patients-association with cerebrovascular disease. Losito, Attilio: Kalidas. Kamini: Santoni, Stefania: Ceccarelli. Luigi: Jeffery. Steve (Policlinico Monteluce. U0 Nefrologia e Dialisi. Perugia: 1-06122. Italy). Nephrology. Dialysis. Transplantation. 17(12). 2184-2188 (English) 2002. CODEN: NOTREA. ISSN: 0931-0509. Publisher:

uisedse. Losito, Attillo: Kalidas, Kamini: Santoni, Stefania: Ceccarellii, Luigi: Jeffery. Steve (Policlinico Monteluce. Uo Nefrologia e Dialisi. Perugia. i-DioI22. Italy). Nephrology. Dialysis. Transplantation, 17(12). 2184-2188 (English) 2002. CODEN: NDTREA. ISSN: 0931-0509. Publisher: Oxford University Press.
Polysorphisms of genes of the renin-angiotensin system (RAS) have been found in assocn. with cerebrovascular and cardiovascular diseases in the general population. In dialysis patients, RAS gene polymorphisms have been studied in combination and sep. and have yielded conflicting results. In this study we have analyzed. In 160 dialysis patients, the distribution of the following genetic polymorphisms: R2351 and 1174M of the angiotensinogen gene. Al166C of the angiotensin II type I receptor gene and the insertion/deletion (1/0) of the AEE gene. The assocn. of these polymorphisms with cerebrovascular and cardiovascular diseases was also tested. Healthy blood donors and hospital staff (169) were the control group for the distribution of the polymorphisms in dialysis patients as a whole did not differ significantly from that of healthy controls. However. for patients with severe cerebrovascular disease. 70% carried the D allele compared with 52% of patients without cerebrovascular disease (P-0.035). We also found that the degree of carotid artery stenosis was significantly correlated with the presence of the AEE 'D' allele in subjects on dialysis (P-0.0348). The distribution of RAS genes in dialysis patients is similar to that of the normal population. The presence of the D allele of AEE gene is assocd. with cerebrovascular disease and the degree of carotid artery stenosis was significantly correlated with the presence of the AEE gene polymorphisms of genes of the renin-angiotensin system (RAS) have been found in assocn. with cerebrovascular diseases Polymorphisms of genes of the renin-angiotensin system genes in dialysis patients. RAS gene polymorphisms have been studied in combination and sep... . 160 dial

Page 2

11 ANSWER 2 OF 123 CAPLUS COPYRIGHT 2003 ACS
2003:168113 Normalization of Endothelial and Inducible Nitric Oxide Synthase Expression in Brain Microvessels of Spontaneously Hypertensive Rats by Angiotensin II ATI Receptor Inhibition, Yamakawa, Haruki; Jezova, Miroslava; Ando, Hiromichi; Saavedra, Juan M. Journal of Cerebral Blood Flow and Metabolism. 23(3). 371-380 (English) 2003. COOCN: JGBMON. ISSN: 0271-678X. Publisher: Lippincott Williams & Wilkins.

AB Inhibition of angiotensin II AT receptors protects against stroke, reducing the cerebral blood flow decrease in the periphery of the Ischemic lesion. To clarify the mechanism, spontaneously hypertensive rats (SHR) and normotensive control Wistar Kyoto (KKY) rats were pretreated with the AT receptor antagonist candesartan (0.3 mg .cntdot. kg .cntdot. d) for 28 days, a treatment identical to that which protected SHR from brain ischemia, and the authors studied middle cerebral artery (MCA) and common carotid morphol.. endothelial nitric oxide synthase (eNOS) and inducible nitric oxide synthase in the prefession in cerebral microvessels, principal arteries of the Willis polygon, and common carotid artery. The MCA and common carotid artery of SHR exhibited inward eutrophic remodeling, with decreased lumen diam, and increased media thickness when compared with MKY rats. In addn.. there was decreased eMOS and increased iNOS protein and mRNA in common carotid artery, circle of Willis, and brain microvessels of SHR when compared with MKY rats. Both remodeling and alterations in eNOS and iNOS expression in SHR were completely reversed by long-tem AT receptor inhibition. The henodynamic, morphol., and brian microvessels of SHR when compared with MKY rats. Both remodeling and alterations in eNOS and iNOS expression in SHR were completely reversed by long-tem AT receptor inhibition. The henodynamic, morphol., and brian and increations in ecrebovascular circulation during hypertension, and that their blockade may be of therapeutic advantage. 1 1 1 1.

Normalization

L1 ANSWER 3 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) is a risk factor for cerebrovascular disease in dialytic patients.

ACE AT1 receptor angiotensinogen gene polymorphism cerebrovascular

disease hemodialysis Gene, animal RL: BSU (Biological study. unclassified): PRP (Properties): BIOL

(Biological study)
(AGT: angiotensinogen. angiotensin ATI receptor and ACE genes polymorphisms assocn. with cerebrovascular disease in dialysis patients)

Gene. animal
RL: BSU (Biological study. unclassified): PRP (Properties): BIOL
(Biological study)
(ATI receptors: angiotensinogen. angiotensin ATI receptor and ACE genes
polymorphisms assocn. with cerebrovascular disease in
dialysis patients)
Gene. animal

dalysis patients)
Gene, animal
RL: ADV (Adverse effect, including toxicity): BSU (Biological study,
unclassified): PRP (Properties): BIOL (Biological study)
(Ace: angiotensinogen, angiotensin ATI receptor and ACE genes
polymorphisms assocn, with cerebrovascular disease in
dialysis patients)
Allele frequency
Genetic polymorphism
Computers

Genotypes Human Hypertension Suscentibility (genetic)

(angiotensinogen, angiotensin ATL receptor and ACE genes polymorphisms assocn, with cerebrovascular disease in dialysis patients)

(Carotid. stenosis; angiotensinogen, angiotensin ATI receptor and ACE genes polymorphisms assocn. with cerebrovascular disease in dialysis patients) Artery, disease

Brain, disease in. ulsease (cerebrovascular; angiotensinogen, angiotensin ATI receptor and ACE genes polymorphisms assocn, with cerebrovascular disease in dialysis patients)

Cardiovascular system (disease: angiotensinogen, angiotensin ATI receptor and ACE genes polymorphisms assocn, with cerebrovascular disease in dialysis patients)

IT Kidney, disease
(failure, chronic: angiotensinogen, angiotensin ATI receptor and ACE
genes polymorphisms assocn, with cerebrovascular disease in
dialysis patients)

Dialysis
(hemodialysis: angiotensinogen, angiotensin ATI receptor and ACE genes
polymorphisms assocn, with cerebrovascular disease in

dialysis patients)
IT Angiotensin receptors

- ANSWER 3 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RL: BSU (Biological study, unclassified): BIOL (Biological study)
 (type AT1: angiotensinogen, angiotensin AT1 receptor and ACE genes
 polymorphisms assocn, with cerebrovascular disease in
 dialysis patients)
 9015-82-1. Angiotensin-converting enzyme
 11002-13-4. Angiotensingen
 RL: BSU (Biological study, unclassified): BIOL (Biological study)
 (angiotensinogen, angiotensin AT1 receptor and ACE genes polymorphisms
 assocn, with cerebrovascular disease in dialysis patients)

- (Continued) L1 ANSWER 4 OF 123 CAPLUS COPYRIGHT 2003 ACS
- losartan effect on cognitive function) 114798-26-4. Losartan 114/yd-2b-4. Losartan RL: PAC (Pharmacological activity): THU (Therapeutic use): BIOL (Biological study): USES (Uses) (angiotensin II receptor antagonist losartan effect on cognitive function)

- L1 ANSWER 4 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:930570 Document No. 138:11276 Does the angiotensin II
 receptor antagonist losartan improve cognitive function? Tedesco.
 Nichele A.: Ratti. Genmaro: Di Salvo. Giovanni: Natale. Francesco
 (Department of Cardio-Thoracic and Respiratory Sciences. Second University
 of Naples. Naples. Lialy). Drugs & Aging. 19(10), 723-732 (English) 2002.
 CODEN: DRAGEG. ISSN: 1170-229X. Publisher: Adis International Ltd..
 AB Newer classes of antihypertensive agents. such as angiotensin
 II receptor antagonists. may offer benefits to patients in addn.
 to their ability to lower blood pressure. It is accepted that chronic
 hypertension contributes to the development of cerebrovascular
 and cardiovascular disease, and several studies have demonstrated a link
 between hypertension and reduced cognitive function. esp. in patients not
 receiving antihypertensive medication. In an initial clin. trial, the
 angiotensin II receptor antagonist losartan was shown to
 improve cognitive function in patients with hypertension. including in
 those who were elderly (up to 73 yr of age). This effect cannot be
 explained by a redn. In blood pressure alone and is likely to involve
 interactions with the diverse biol. actions of the renin-angiotensin
 system. Improving or maintaining cognitive function in patients with
 hypertension may translate into economic benefits beyond those expected
 due to blood pressure control. and would result in considerable
 quality-of-life benefits for the aging population.

 10 Does the angiotensin II receptor antagonist losartan
 improve cognitive function?

 As Newer Classes of antihypertensive agents. such as angiotensin

 - Does the angiotensin II receptor antagonist losartan improve cognitive function?

 Newer classes of antihypertensive agents. such as angiotensin II receptor antagonists. may offer benefits to patients in addn. to their ability to lower blood pressure. It is accepted that chronic hypertension contributes to the development of cerebrovascular and cardiovascular disease, and several studies have demonstrated a link between hypertension and reduced cognitive function, esp. in patients not receiving antihypertensive medication. In an initial clin. trial, the angiotensin II receptor antagonist losartan was shown to improve cognitive function in patients with hypertension, including in those who were elderly (up.

 angiotensin II receptor antagonist losartan cognition hypertension antihypertensive elderly
 Antihypertensives

Antihypertensives Cognition

Human

Hypertension

Hypertension
(angiotensin II receptor antagonist losartan effect
on cognitive function)

II Angiotensin receptor antagonists
(angiotensin II; angiotensin II
receptor antagonist losartan effect on cognitive function)

II Aging, animal
(algebra, anistensin II coccope, antagonist

(elderly: angiotensin II receptor antagonist

- L1 ANSWER 5 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:824769 All receptor antagonists and cerebrovascular
 protection. Eguchi. Kazuo: Kario, Nanaomi: Shimada. Kazuyuki (Dept. of
 Cardiology, Jichi Medical School, Japan). Ketsuatsu. 9(8), 782-786
 (Japanese) 2002. CODEN: KETSAH. ISSN: 1340-4598. Publisher: Sentan
- Unavailable
 AII receptor antagonists and cerebrovascular protection

ANSWER 6 OF 123 CAPLUS COPYRIGHT 2003 ACS

12:813926 Document No. 137:304829 Enantiomers of N-[[2'-[[(4.5-dimethyl-3-isoxazolyl)] amino]sulfonyl]-4-(2-oxazolyl)[1.1'-biphenyl]-2-y]methyl)-1.

N.3.3-trimethylbutanamide. Hughes, David E.: Seidenberg, Beth C.

N.3.3-trimethylbutanamide. Hughes, David E.: Seidenberg, Beth C.

N.3.3-trimethylbutanamide. Hughes. Na C. A. A. D. A. T. A. D. A. B. A.

20021024. 24 pp. DESIGNATED STATES. W. AE. AG. AL. A. M. AT. AU. AZ. BA.

8B. BG. BR. BR. BY. BZ. CA. CH. CN. CO. CR. CU. CZ. DE. DK. DM. DZ. EC. EE.

ES. FI. GB. GD. GE. GH. GM. HR. HU. ID. IL. IN. IS. JP. KE. KG. KP. KR.

KZ. LC. LK. LS. LS. LT. LU. LV. MA. DM. MG. MK. MN. MM. NK. MZ. NO. NZ.

CM. PH. PL. PT. RO. RU. SD. SE. SG. SI. SK. SL. TJ. TM. TN. TR. TT. TZ.

UA. UG. US. UZ. VN. VV. U. ZA. ZM. ZW. AM. AZ. BY. KG. KZ. MD. RU, TJ. TM:

WA. AT. BE. BF. BJ. CF. CG. CH. CI. CM. CY. DE. DK. ES. FI. FR. GA. GB.

GR. IE. IT. LU. MC. ML. RNE. NL. PT. SE. SN. TD. TG. TR. (English).

CODEN: PIXENZO. APPLICATION: WO 2002-US11992 20020412. PRIORITY: US

2001-PV284080 20010416.

Endothelin antagonist N-[[2'-[[(4.5-dimethyl-3-isoxazolyl)amino]

sulfonyl]-4-(2-oxazolyl)[1.1'-biphenyl]-2-yllmethyl]-N.3.3:

trimethylbutanamide surprisingly exists as separable enantiomeric

atropisomers. The (+)-dextrorotatory atropisomer demonstrates remarkably

higher potency than either the (-)-levorotatory atropisomer or the

racemate. The (+)-dextrorotatory atropisomer is suitable for treatment of

endothelin-related disorders, such as hypertension. renal diseases.

atherosclerosis. restenosis. congestive heart failure, diabetic

nephropathy. cancer, asthma. etc.. alone or in combination with. e.g.

antiplatelet agents. etc.

Angiotensin 1. combination with; therapeutic uses

of enantiomers of biphenyl isoxazole sulfonamide deriv. as endothelin

antagonists)

of enantiomer antagonists)

Illiges
(subarachnoid hemorrhage: therapeutic uses of
enantiomers of biphenyl isoxazole sulfonamide deriv. as endothelin
antagonists) Meninges

ANSWER 8 OF 123 CAPLUS COPYRIGHT 2003 ACS
2:755214 Document No. 137:263024 Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin
II and endothelin receptor antagonists. Murugesan. Nather 1: Macor. Jhon E.: Gu. Zhengxiang (USA). U.S. Pat. Appl. Publ. US 2002143024 Al 20021003. 206 pp., Cont.-in-part of U.S. Ser. No. 643,640. abandoned. (English). CODEN: USXXCO. APPLICATION: US 2000-737201 20001214. PRIORITY: US 1998-PV91847 19980706: US 1999-345392 19990701: US 1999-464037 19991215: US 2000-481197 20000111: US 2000-513779 20000225: US 2000-64322 20000626: US 2000-643640 20000822.

Title compds. (I: Rl = specified oxoimidazolyl. pyridoimidazolyl. pyridylamino. pyridyloxy. triazolyl. quinolinyloxy. etc.; R2 = H. halo. CHO. (halo)alkyl. cycloalkylalkyl. alkenyl. alkkynyl. alkoxyalkyl. alkoxy. cyano. CH. NO2. etc.; R3 = heteroaryl: RIDI-RIO4 = H. halo. CHO. alkyl. haloalkyl. cycloalkylalkyl. alkenyl. alkoxyalkyl. haloalkoxyalkyl. alkoxyalkyl. haloalkoxyalkyl. alkoxyalkyl. haloalkoxyalkyl. alkoxyalkyl. haloalkoxyalkyl. etc. with provisos) were prepd. as dual angiotensin II and endothelin receptor antagonists for treatment of hypertension and other diseases (no data). Thus. 4-BrcGHGCH2OH was coupled with [2-[(4.5-dimethyl-3-isoxazolyl)]((2-methoxyethoxymethyl)amino]sulfonyl]ph. enyl[boronic acid to give N-(4.5-dimethyl-3-isoxazolyl)-4'-(hydroxymethyl)-N-(2-methoxyethoxy)methyl]Ell.1'-biphenyl]-2-sulfonamide (66%). This was brominated to give the 4'-bromomethyl deriv. (90%). reacted with 2-butyl-1.3-diazaspiro(4.4)non-1-en-4-one hydrochloride, and deprotected (49% for two steps) to give 4'-(C2-butyl-4-oxol-1.3-diazaspiro(4.4)non-1-en-3-yl)methyl-N-(4.5-dimethyl-3-isoxazolyl)-[1.1'-biphenyl]-2-sulfonamide. Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor

antagonists.

alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, haloalkoxyalkyl, alkoxy, alkoxyalkoxy, cyano, OH, hydroxyalkyl, NO2, etc: with provisos) were prepd. as dual angiotensin II and endothelin receptor antagonists for treatment of hypertension and other diseases (no dtai). Thus, 4-8rC6H4CH2OH was coupled with [2-[[(4.5-dimethyl-3-isoxazolyl)]((2-methoxyethoxy)methyl]amino]sulfonyl]ph

ANSWER 7 OF 123 CAPLUS COPYRIGHT 2003 ACS
12.812991 Document No. 137:332652 Angiotensin-converting enzyme inhibitors: Are there credible mechanisms for beneficial effects in diabetic neuropathy? Malik. Rayaz A: Toalinson. David R. (Department of Medicine. Manchester Royal Infirmary. Manchester. M13 ML. UK). International Review of Neurobiology. 50(Neurobiology of Diabetic Neuropathy). 415-430 (English) 2002. CODEN: IRNEAE. ISSN: 0074-7742. Publisher: Academic Press. A review. ACE inhibitors have surpassed all predictions for their widespread use in clin. medicine. Initially deemed useful only in a select group of patients with renovascular hypertension (D1 Glulio et al. 1981). they now constitute the panacea for the treatment of diabetes and its complications. Ischemic heart and cerebrovascular disease. and nephropathy from a variety of causes. The pharmacol. of ACE inhibition is complex and provides for a no. of major interactions with pathogenetically relevant pathways resulting in human diabetic neuropathy. This article reviews the vascular basis for diabetic neuropathy and discusses clin. trials utilizing ACE inhibitor therapy. The physiol. of Angiotensin II and the vasodilatory effect of ACE inhibitors are reviewed along with the effect on the renin/angiotensin system. (C) 2002 Academic Press.

I Giulio et al. 1991), they now constitute the panacea for the treatment of diabetes and its complications, ischemic heart and cerebrovascular disease, and nephropathy from a variety of causes. The pharmacol of ACE (inhibition is complex and provides for a no. This article reviews the vascular basis for diabetic neuropathy and discusses clin. trials utilizing ACE Inhibitor therapy. The physiol of Angiotensin II and the vasodilatory effect of ACE inhibitors are reviewed along with the effect on the renin/angiotensin system. (C) 2002 Academic.

9 015-94-5. Renin. biological studes 11128-99-7. Angiotensin II

II RL: BSU (Biological study. unclassified); BIOL (Biological study) (angiotensin-converting enzyme inhibitors for diabetic neuropathy patients)

1 ANSWER 8 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
enyl]boronic acid.
enyl]boronic acid.
...
24/46-03-7P. [1.1'-Biphenyl]-2-sul fonamide. N-(3.4-dimethyl-5-isoxazolyl)2*(-3-fluoropropyl)-4*-(hydroxymethyl)-N-[[2-[(trimethylsilyl)oxy]ethoxy]m
ethyl]- 254746-04-8P. [1.1'-Biphenyl]-2-sul fonamide.
N-(3.4-dimethyl-5-isoxazolyl)-2*-(3-fluoropropyl)-4*
[(methyl sul fonyl)oxy]methyl]-N-[[2-[(trimethylsilyl)oxy]ethoxy]methyl]254746-06-0P 254746-07-P. Methanesul fonic acid. ctrifluoro2-acetyl-4-bromophenyl ester 254746-09-R. Wethanesul fonic acid.
trifluoro-, 4-bromo-2-(1.1-difluoroethyl)-benyl ester 254746-09-9P.
Methanesul fonic acid. trifluoro-. 2*-(1.1-difluoroethyl)-henyl ester 254746-09-9P.
Methanesul fonic acid. trifluoro-. 2*-(1.1-difluoroethyl)-henyl-N-(2-difluoroethyl)-N-(3-difluoroe L1 ANSWER 8 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANSWER 9 OF 123 CAPLUS COPYRIGHT 2003 ACS
1:754383 Document No. 137:262959 Preparation of 1.2.3.4tetralydrofrosquinolinyi ureas and related derivatives as urotensin II
receptor antagonists. Aissaoui, Hamed: Binkert. Christoph: Clozel.
Martine: Mathys. Boris: Mueller. Claus: Nayler. Oliver: Scherz. Michael:
Martine: Mathys. Boris: Mueller. Claus: Nayler. Oliver: Scherz. Michael:
PCT Int. Appl. wO 2002076979 AI 20021003. 94 pp. DESIGNATED STATES: W:
PCT Int. Appl. wO 2002076979 AI 20021003. 94 pp. DESIGNATED STATES: W:
PCT Int. A.M. AT. AU. AZ. BA. BB. BG. BR. BY. BZ. CA. CH. CN. CO. CR.
CU. CZ. DE. DK. DM. DZ. EC. EE. ES. FI. GB. GD. GE. GH. GH. HI. ID.
III. IN. IS. JP. KE. KG. KP. KR. KZ. LC. LK. LR. LS. LT. LU. LW. MA. MD.
MS. MK. MM. MM. MZ. NO. NZ. OM. PH. PL. PT. RO: RW: AT. BE. BF. BJ.
CF. GG. CH. CI. CM. CY. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. MC.
LW. RN. EN. LL. PT. SE. SN. TD. TG. TR. (English). CODEN: PIXXOZ.
APPLICATION: WO 2002-EP3131 20020320. PRIORITY: WO 2001-EP3422 20010327:
WO 2001-EP9845 20010827.

The invention relates to novel 1.2.3.4-tetrahydroisoquinoline derivs. (shown as 1; e.g. 1-[2-[1-(4-Fluorobenzy])-6.8-dimethoxy-3.4-dihydro-1H-isoquinolin-2-y]lethy]-3-(2-methylquinolin-4-y])urea) and related compds. and their use as active ingredients in the prepn. of pharmaceutical compns. The invention also concerns related aspects including processes for the prepn. of the compds. (but not claimed), pharmaceutical compns. contg. one or more of those compds. and esp. their use as neurohoromonal antagonists esp. urotensin [I antagonists. In 1, X = -CH2-. -CH2C-! -CH2-. -CH2C-! - Q. He; n = 1, 2; Z = quinolin-4-y| which may be monosubstituted with lower alkyl in the positions 2.6 or 2.6. or 8. or disubstituted with lower alkyl in the positions 2.6 or 2.6. or disubstituted with lower alkyl in the positions 2.6 or 0.8. (1.8)naphthyridin-4-y| which may be substituted in position 7 with lower alkyl; pyridin-4-y| which may be substituted in position 7 with lower alkyl; pyridin-4-y| which may be substituted in position 7 with lower alkyl; pyridin-4-y| which may be substituted in position 7 with lower alkyl; pyridin-4-y| which may be substituted in position 7 with lower alkyl; pyridin-4-y| which may be substituted in position 7 with lower alkyl; pyridin-4-y| which may be substituted in position 7 with lower alkyl; pyridin-4-y| which may be substituted in position 7 with lower alkyl; pyridin-4-y| which may be substituted in position 7 with lower alkyl; porupin 4-y| which may be applied to 1 which may be 2 with R78N- and addn! in position 2 with R78N- and addn! in position 8 with R7 with lower alkyl lower alkyl lower alkyl lower alkyl or trisubstituted Ph. substituted Mp. substituted Ph. substituted Ph. substituted Ph. ring in the styryl group may be mono. di- or trisubstituted Ph. substituted independently with lower alkyl lower alkyl lower alkyloxy, trifluoromethyl, halogen.

Page 5

ANSWER 8 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

[[2-(trimethylsilyl)oxy]ethoxy]methyl]- 254746-72-0P. Benzoic acid.
4-brono-3-[(1.1-dimethylethoxy)methyl]-, methyl ester 254746-73-IP.

[[1.1'-Biphenyl]-4-carboxylic acid. 2-[(1.1-dimethylethoxy)methyl]-2°.

[[(3.4-dimethyl-5-isoxa20]yl)[[2-(trimethylsilyl)oxy]ethoxy]methyl]aminol

sulfonyl]-, methyl ester 254746-74-2P. [[1.1'-Biphenyl]-2-sulfonamide.

2'-((1.1-dimethyl)-N-[(2-(trimethylsilyl)oxy]methyl]- 254746-75-3P.

[[1.1'-Biphenyl]-2-sulfonamide. 4'-(bronomethyl)-2'-[(1.1'-dimethyl-1)-1]-2-sulfonamide.

4'-(bronomethyl)-N-[(2-(trimethyl-5-isoxa20]yl)-N-[(2-(trimethylsilyl)oxy]ethoxy]methyl]- 254746-75-3P.

[[trimethylsilyl)oxy]ethoxy]methyl]- 254746-76-4P 254746-82-2P.

RI: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (Reactant or reagent)

(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as
dual angiotensin II and endothelin receptor

dual angiotensin 11 and encoties in receptor anatogonists)
50-78-2. Aspirin 52-01-7. Spironolactone 10238-21-8. Glyburide
51384-51-1. Metoprolol 55142-85-3. Ticlopidine 72956-09-3. Carvedilol 75330-75-5. Lovastatin 79902-63-9. Simvastatin 81093-37-0. Pravastatin 107724-20-9. Eplerenone 113665-84-2. Clopidogrel 134523-00-5. Atorvastatin 147098-20-2. Zd-4522 147526-32-7. NK 104 150322-43-3.

CS-747
RL: THU (Therapeutic use): BIOL (Biological study): USES (Uses)
(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as
dual angiotensin II and endothe

SYSTEM LIMITS EXCEEDED

L1 ANSWER 9 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) cyano. R3, R4. R5 and R6 independently = H. cyano. hydroxy. lower alkyloxy. aralkyloxy. lower alkenyloxy, and R5 addn1 = R7RBNCO; R4 and R5 together may form with the Ph ring a five- or a six-membered ring contg. one or two 0 atoms: R7 and R8 independently represent H. lower alkyl. aryl. aralkyl or together with the N form a pyrrolidine, piperidine, or morpholine ring. Test results for 4 of the claimed compds. regarding inhibition of human [1251]-urotensin II binding to a rhabdomyosarcoma cell line (ICSO = 67-550 nH) and for 2 compds. regarding inhibition of human urotensin II-induced contractions of isolated rat aortic arch (pD2' = 5.23. 5.45) are reported. Although the methods of prepn. are not claimed. a no. of examples of prepn. of intermediates and target compds. are included. included.

included. Angiotensin receptor antagonists (angiotensin II: in combination with tetrahydroisoquinoline ureas and related deriv. urotensin II receptor antagonists for treatment of various disorders)

inges (subarachnoid hemorrhage: prepn. of tetrahydroisoquinoline ureas and related derivs. as urotensin II receptor antagonists for treatment of various disorders)

- ANSWER 10 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2:716094 Document No. 137:226612 Antihypertensive agent and cholesterol absorption inhibitor combination therapy. Nichtberger. Steven A. (Merck & Co., Inc., USA). PCT Int. Appl. NO 2002072104 A2 20020919. 29 pp.
 DESIGNATED STATES: N: AE. AG. AL. AM. AT. AU. AZ. BA. BB. BG. BR. BY. BZ. CA. CH. CN. CO., CR. CU. CZ. DE. DK. DM. DZ. EC. EE. ES. FI. GB. GD. GE. GH. HR. HU. ID. IL. IN. IS. JP. KE. KG. KR. KZ. LC. LK. LR. LS. LT. LU. LV. MA. MD. MB. KK. NM. MM. MX. MZ. NZ. NB. NZ. OM. PH. PL. PT. RD. RU. SD. SE. SG. SI. SK. SL. TJ. TH. TN. TR. TT. TZ. UA. UG. US. UZ. VN. YU. SA. ZM. ZW. AM. AZ. BY. KG. KZ. MO. RU. TJ. TM. RNI AT. BE. BF. BJ. CF. CG. CH. CI. Ch. CY. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. MC. ML. MR. NL. NI. ST. SE. SN. TD. TG. TR. (English). CODEN: PIXXOZ. APPLICATION: WO 2002-US6570 20020305. PRICRITY: US 2001-PV274288 20010308.
- APPLICATION: WO 2002-U56570 20023035. PRICHIT: US 2001-PR274260 20010308. The invention includes methods for treating atherosclerosis and preventing atherosclerosic disease events in a hypertensive patient comprising administering to the patient a therapeutically or prophylactically effective ant. of at least one antihypertensive compd. in combination with a therapeutically effective ant. of a cholesterol absorption inhibitor. The invention also includes a compn. comprising at least one antihypertensive compd. and a cholesterol absorption inhibitor in therapeutically effective ants., and a pharmaceutically acceptable carrier. Anoiotensin receptor antagonists

carrier.
Angiotensin receptor antagonists
(angiotensin II: antihypertensive agent and
cholesterol absorption inhibitor combination therapy)
Brain. disease

inn. disease (cerebrovascular; antihypertensive agent and cholesterol absorption inhibitor combination therapy)

- L1 ANSWER 12 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:551880 Document No. 138:214719 The renin-angiotensin system in the brain: possible therapeutic implications for All-receptor blockers. Culman, J.; Blume, A.; Gohlke, P.; Unger, T. (Institute of Pharmacology, Christian-Albrechts-University of Kiel, Kiel, 24105, Germany). Journal of Human Hypertension, 16(Suppl. 3), 564-570 (English) 2002. CODEN: JHHYEN. ISSN: 0550-9240. Publisher: Nature Publishing Group.

 AB A review. Biochem., physiol. and functional studies suggest that the brain renin-angiotensin system (RAS) is regulated independently of the peripheral RAS. The classical actions of angiotensin II in the brain include blood pressure control. drinking behavior. natriuresis and the release of vasopressin into the circulation. At least two subtypes of G-protein coupled receptors. the ATI and the ATZ receptor, have been identified. Most of the classic actions of angiotensin II in the brain are mediated by ATI receptors. The ATZ receptor is involved in brain development and neuronal regeneration and protection. Addnl.. ATZ receptors can modulate some of the classic angiotensin II actions in the brain. Selective non-peptide ATI receptor blockers, applied systemically, have been shown to inhibit both peripheral and brain ATI receptors. In genetically hypertensive rats, inhibition of brain ATI receptors may contribute to the blood pressure lowering effects of ATI receptor blockers. Animal studies have shown that ATI receptor antagonists enable endogenous angiotensin II to stimulate neuronal regeneration via activation of ATZ receptors. In animal models, inhibition of the brain RAS proved to be beneficial with respect to stroke incidence and outcome. Blockade of brain and cerebrovascular ATI receptors by ATI receptor blockers prevents the rend, in blood flow during brain ischemia, reduces the vol. of ischemic injury and improves neurol, outcome after brain ischemia. This paper reviews the actions of angiotensin II and its
 - receptors in the brain, and discusses the possible consequences of Alireceptors blockade in neuroprotection, neuroregeneration, cerebral hemodynamics and ischemia.

 . functional studies suggest that the brain renin-angiotensin system (RAS) is regulated independently of the peripheral RAS. The classical actions of angiotensin II in the brain include blood pressure control, drinking behavior, natriuresis and the release of vasopressin into the circulation. At least. . subtypes of G-protein coupled receptors, the ATI and the ATZ receptor, have been identified. Most of the classic actions of angiotensin II in the brain are mediated by ATI receptors. The ATZ receptor is involved in brain development and neuronal regeneration and protection. Addin. ATZ receptors can modulate some of the classic angiotensin II actions in the brain. Selective non-peptide ATI receptor blockers, applied systemically, have been shown to inhibit both peripheral and brain. . to the blood pressure lowering effects of ATI receptor blockers. Animal studies have shown that ATI receptor analyment of the brain RAS proved to be beneficial with respect to stroke incidence and outcome. Blockade of brain and cerebrovascular ATI receptors by ATI receptor blockers prevents the redn. in blood flow

- L1 ANSWER 11 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:551882 Document No. 138:214720 Potential for antihypertensive treatment with an AT1-receptor blocker to reduce dementia in the elderly. Trenkwalder. P. (Starnberg Hospital. Department of Internal Medicine. Ludwing Maximilian University Munich. Starnberg, Germany). Journal of Human Hypertension, 16(Suppl. 3), 571-575 (English) 2002. CODCH: JHHYEN. ISSN: 0950-9240. Publisher: Nature Publishing Group.
 AB A review. Hypertension is an established risk factor for stroke and other cerebrovascular disorders. Both stroke and small lacunar infarcts or white matter lesions can cause cognitive impairment and dementia, and there is evidence that vascular risk factors play a major role in the development of both Alzheimer's disease and vascular dementia. Several large epidemiol. studies have shown that raised blood pressure in midlife is a strong risk factor for dementia later in life; however. blood pressure often decreases following the development of dementia. The cognitive function hypothesis proposes that elevated blood pressure increases the risk of decline of cognitive function, and that this can be reversed by active lowering of blood pressure. Evidence in support of this hypothesis comes from the Syst-Eur Dementia project, and from a no. of smaller studies. SCOPE (Study on Cognition and Prognosis in the Elderly) is a large prospective study involving almost 5000 elderly patients (age 70-89 yr), who are randomized to receive candesartan cilextil. 8-16 mg, or placebo. Candesartan was chosen for this study because it is effective and well tolerated in elderly patients. SCOPE should provide important information on the long-term effects of All-receptor blocker treatment with candesartan on morbidity-including effects on cognitive function-and cardiovascular mortality in elderly hypertensive patients.

 As A review. Hypertension is an established risk factor for stroke and other cerebrovascular disorders. Both stroke and small lacunar infarcts
- nypertensive patients.
 A review. Hypertension is an established risk factor for stroke and other cerebrovascular disorders. Both stroke and small lacunar infarcts or white matter lesions can cause cognitive impairment and dementia, and
 - Angiotensin receptor antagonists
 (angiotensin II. ATI: potential for
 antihypertensive treatment with ATI-receptor blocker to reduce dementia in elderly humans)

ANSWER 12 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) during brain ischemia. reduces the vol. of ischemic injury and improves neurol. outcome after brain ischemia. This paper reviews the actions of angiotensin II and its receptors in the brain, and discusses the possible consequences of ATI receptor blockade in neuroprotection, neuroregeneration, cerebral hemodynamics.

Angiotensin receptor antagonists
(angiotensin II, ATI. remin-angiotensin system in brain and possible therapeutic implications for ATI-receptor blockers) 9015-94-5, Renin, biological studies 11128-99-7, Angiotensin II

11 RL: BSU (Biological study, unclassified): BIOL (Biological study) (renn-angiotensin system in brain and possible therapeutic implications for ATI-receptor blockers)

- ANSWER 13 OF 123 CAPLUS COPYRIGHT 2003 ACS

 12:551864 Document No. 138:214712 The problem of uncontrolled hypertension. Lindholm. L. H. (Department of Public Health and Clinical Medicine. Norrlands University Hospital, Umea. Swed.). Journal of Human Hypertension. 16(Suppl. 3). S3-S8 (English) 2002. CODEN: JHHYEN. ISSN: 0950-9240. Publisher: Nature Publishing Group.

 A review. It is well established that there is a continuous relationship between raised blood pressure and the risk of cardiovascular or cerebrovascular disease. Both systolic and disatolic hypertension are assocd. with increased risk. but systolic allood pressure appears to be a more important determinant of risk than disatolic blood pressure. Randomized controlled trials have clearly shown that lowering blood pressure results in significant redns. in cardiovascular mortality and morbidity, and hence current hypertension management quidelines recommend target blood pressures of below 140/90 mm Hg (135/85 mm Hg in the case of the WHO/ISH guidelines). Despite the clear evidence for the benefits of antihypertensive therapy, however, blood pressure is often not adequately controlled in clin. practice. Population surveys indicate that the proportion of patients achieving even conservative blood pressure targets may be only 20% or lower. A no. of factors contribute to poor control of hypertension, including a focus by the physician on diastolic blood pressure. rather than the prognostically more important systolic pressure, and poor adherence to therapy by patients. Poor adherence may be largely attributable to adverse events, and there is evidence that the excellent tolerability profile of angiotensin II type 1 (ATI)-receptor blockers may help to increase the proportion of patients remaining on therapy. ATI-receptor blockers may help to increase the proportion of patients remaining on therapy. ATI-receptor blockers may help to increase the proportion of patients remaining on therapy. ATI-receptor blockers could thus make a potentially important contribu
- hypertension.

 It is well established that there is a continuous relationship between raised blood pressure and the risk of cardiovascular or cerebrovascular disease. Both systolic and diastolic hypertension are assocd with increased risk, but systolic blood pressure appears to be a more. patients. Poor adherence may be largely attributable to adverse events, and there is evidence that the excellent tolerability profile of angiotensin II type 1 (ATI)-receptor blockers may help to increase the proportion of patients remaining on therapy. ATI-receptor blockers could thus make.

 Angiotensin receptor antagonists (angiotensin II; uncontrolled hypertension problems and benefits of antihypertensive treatment in humans)

- ANSWER 15 OF 123 CAPLUS COPYRIGHT 2003 ACS L1 ANSWER 15 OF 123 CAPLUS COPYRIGHT 2003 ACS 2002:540258 Document No. 137:109267 Preparation of benzoxepinopyridines as PMG-CoA reductase inhibitors. Robl. Jeffrey A.; Chen, Bang-chi; Sun, Chong-qing (USA). U.S. Pat. Appl. Publ. US 2002094977 AI 20020718. 42 pp.. Cont.-in-part of U.S. Ser. No. 875.155. (English). CODEN: USXXCO. APPLICATION: US 2001-7407 20011204. PRIORITY: US 2000-PV211595 20000615: US 2001-875155 20010606.
- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *

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- Title compds. I [X = 0, S. 50, 502, NR7; Z = HOCHCH2CH(OH)CH2CO2R3, 4-hydroxy-2-oxopyran-6-y1, etc.; n = 0, 1; R1, R2 = alky1, arylalky1, cycloalky1, aryl. heteroary1, cycloheteroalky1; R3 = H, alky1, metal ion; R4 = H, halo, C7, etc.; R7 = H, alky1, aryl. alkany1, aroyl, alkoxyachoxy1, etc.; R9, R10 = H, alky1, aryl. alkany1, aroyl, alkoxyachoxy1, etc.; R9, R10 = H, alky1, aryl. were prepd. as HMG CoA reductase inhibitors active in inhibiting cholesterol biosynthesis, modulating blood serum lipids such as lowering LDL cholesterol and/or increasing HD1 cholesterol. and treating hyperlipidemia, hypercholesterolemia, hypertriglyceridemia and atherosclerosis (no data). A multistep synthesis of II is reported. Angiotensin receptor antagonists
 (angiotensin II. coadministered agents; prepn. of beroxxeptinopyridines as HMG-CoA reductase inhibitors for treatment of hyperlipidemia. hypercholesterolemia, hypertriglyceridemia. atherosclerosis, and other disorders)
 Brain, disease
- Gerebrovascular, treatment; prepn. of benzoxepinopyridines as MMG-God reductase inhibitors for treatment of hyperlipidemia, hypercholesterolemia, hypertriglyceridemia, atherosclerosis, and other

- L1 ANSWER 14 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:546382 Document No. 137:118939 Ambulatory blood pressure in heart
 failure. Jamieson. M. J.: Jamieson. C. (Department of Pharmacology.
 University of Texas Health Science Center San Antonio. San Antonio. USA).
 Klinische Pharmakologie. 20(Digitalis Glycosides: Vascular Sites of
 Action). 27:37 (English) 2002. COODN: KLPHEH. ISSN: 0937-0978.
 Publisher: M. Zuckschwerdt Verlag GmbH.

 AB A review. Ambulatory blood pressure monitoring (ABPH) is accepted in the
 evaluation and management of hypertension. The use of ABPM in heart
 failure has received considerably less attention. Many patients with
 advanced heart failure experience disabling fatigue. orthostatic dizziness
 and symptoms of coronary and cerebrovascular insufficiency that
 may relate to periods of hypotension. These may be exacerbated by
 vasodilator drug therapy and may be difficult to evaluate by casual clinic
 recordings. ABPM in heart failure may help in: evaluating time-dependent
 pharmacodynamic drug effects. such as peak and end-of-dose phenomena.
 tolerance and rebound. (ii) Litrating ACE inhibitors and other drugs to
 highest-tolerated doses. (iii) correlating circadian blood pressure
 profiles with symptoms, quality of life. severity of heart failure,
 progression of ventricular and renal dysfunction. risks of stroke and
 myocardial infarction. and life expectancy. Devices for ABPM have been
 beset by problems of inaccuracy and unreliability. Stds. for their manuf.
 and sale (including bench tests of accuracy against sphygomanomentry and
 intra-arterial recordings, and field tests of reliability) have been
 beset by problems of inaccuracy and unreliability. Stds. for their manuf.
 and sale (including bench tests of accuracy against sphygomanomentry and
 intra-arterial recordings, and field tests of reliability) have been
 beset by problems of inaccuracy and intellates of reliability have
 been devised independently by several agencies including the British
 Hypertension Society (BRS) and US Assoon. for the Advancement

 - ANSWER 16 OF 123 CAPLUS COPYRIGHT 2003 ACS 2:392237 Document No. 136:401651 Preparation of fused pyridine derivatives as HMG-COA reductase inhibitors. Robi. Jeffrey A.: Chen. Bang-Chi: Sun. Chong-Ging (USA). U.S. Pat. Appl. Publ. US 2002061901 Al 20020623. 46 pp.. Cont.-in-part of U.S. Ser. No. 875.218. (English). CODEN. USXCO. APPLICATION: US 2001-8154 2001120. PRIORITY: US 2000-PV211594 20000615: US 2001-875218 20010606.
 - H
 - The title compds. I and their pharmaceutically acceptable salts, esters. prodrug esters, and stereoisomers are claimed [wherein: Z = CH(OH)CH2CCR7(OH)CH2CCR3 or corresponding pyranone lactone derivs.: n = 0. 1; x = 0. 1, 2, 3, or 4, y = 0. 1, 2, 3 or 4, provided that at least one of x and y is other than 0; and optionally one or more carbons of (CH2)x and/or (CH2)x together with addnl. carbons form a 3 to 7 membered spirocyclic ring; R1, R2 = alkyl, arylalkyl, cycloalkyl, alkenyl, cycloalkenyl, aryl, heteroaryl, cycloheteroalkyl; R3 = H or lower alkyl; cycloalkenyl, aryl, heteroaryl, cycloheteroalkyl; R3 = H or lower alkyl; cycloalkenyl, aryl, heteroaryl, cycloheteroalkyl; R3 = H or lower alkyl; cycloalkenyl, aryl, heteroaryl, cycloheteroalkyl; R3 = H or lower alkyl; cycloalkenyl, aryl, heteroaryl, cycloheteroalkyl; R3 = H or lower alkyl; cycloalkenyl, aryl, heteroaryl, cycloheteroalkyl; R3 = H or lower alkyl; cycloalkenyl, aryl, heteroaryl, cycloheteroalkyl; R3 = H or lower alkyl; cycloalkenyl, aryl, heteroaryl, cycloheteroalkyl; R3 = H or lower alkyl; cycloalkenyl, aryl, heteroaryl, cycloheteroalkyl; R3 = H or lower alkyl; cycloalkenyl, alkenyl, cycloalkenyl, R3 = H or lower alkyl; cycloalkenyl, R3 = H or lower
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (angiotensin II, therapeutic compns. also contg.
 antagonists of; prepn. of fused pyridine derivs. as HMG-CoA reductase inhibitors)
 - IT Brain, disease

ANSWER 16 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) WEK ID UP 123 CAPLUS CUPTRIBHT 2003 ACS (CONCINUED) (cerebrovascular, treatment; prepr. of fused pyridine derivs. as HMG-COA reductase inhibitors)

L1

ANSWER 17 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) describing the app. assembly and operation are given.

particularly, the present invention provides an assay to detect parameters assocd. With a vascular disease including cardiovascular. stroke. pulmonary. renovascular. cerebrovascular. thrombotic or generalized arterial or venous condition or event including acute coronary syndrome such as but not limited to acute.

in a coma. It is also useful in deta, the risk of a vascular disease including cardiovascular. stroke. pulmonary. renovascular. cerebrovascular. thrombotic or generalized arterial or venous conditions or events in a healthy subject or a subject entering into an exposure.

Angiotensin receptors

or a subject entering into an exposure.
Angiotensin receptors
RL: ANT (Analyte): DGN (Diagnostic use); ANST (Analytical study): BIOL
(Biological study): USES (Uses)
(angiotensin II: Immunol. diagnostic device for
systemic vasculature conditions)

- L1 ANSWER 17 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2002:220928 Document No. 136:229049 immunological diagnostic device for systemic vasculature conditions. Christopherson. Richard Ian: Dos Remedios, Cristobal Guillermo: Celermajer. David Stephen (University of Sydney, Australia). PCT Int. Appl. No 200202319 1Al 20020321. 39 pp. 0ESIGNATED STATES: N: AE. AG. AL. AM. AT. AU. AZ. BA. 88. 66. SR. BY. BZ. CA. CH. CN. CO. CR. CU. CZ. DE. DK. DM. DZ. EC. EE. ES. FI. GB. GD. GE. GH. GM. HR. HJ. DI. II. IN. IS. JP. KE. KG. KP. KR. KZ. LC. LK. LR. LS. LT. LU. LY. MA. MD. MG. MK. MN. MM. MX. MZ. NO. NZ. PH. PL. PT. RO. RU. SD. SE. SG. SI. SK. SL. TJ. TM. TJ. TK. RY. AT. BE. BF. BJ. CF. CG. CH. CT. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. MC. ML. MR. NE. NI. PT. SE. SN. TD. TG. TR. (English). COORN: PIXXOZ. APPLICATION: WO 2001-AU1141 20010912. PRIORITY: AU 2000-56 20000912.

 AB The invention concerns a diagnostic device including a prognostic assay for parameters with are indicative of a condition or event assocd. with the systemic vasculature. More particularly, the present invention provides an assay to detect parameters assocd. with a vascular disease including cardiovascular, stroke, pulmonary, renovascular, cerebrowascular: thrombotic or generalized arterial or venous condition or event including acute coronary syndrome such as but not limited to acute myocardial infarction, heart failure, atheromana or a thrombotic condition. The identification of these parameters or more particularly a pattern of parameters enables the diagnosis of a condition or event or the detn. of the risk of development of a condition or event invention. The identification of these parameters or more particularly a pattern of parameters enables the diagnosis of a condition or event on the detn. of the risk of development of a condition or event invention is directed to a diagnostic device comprising a set of members wherein one or more of said members has or have specific or generic binding partners is indicative, predictive or otherwise assocd.

- ANSMER 18 OF 123 CAPLUS COPYRIGHT 2003 ACS

 10: 8884 Document No. 136:209935 Vascular effects of newer cardiovascular drugs: focus on nebivolol and ACE-inhibitors. Luscher. Thomas F.;

 Spieker. Lukas E.; Noll. Georg: Cosentino. Francesco (Division of Cardiology, University Hospital, Zurich. CH-8091, Switz.). Journal of Cardiovascular Pharmacology, 38(Suppl. 3), 33-S11 (English) 2001. CODEN: JCPOT. ISSN: 0160-246. Publisher: Lippincott Williams & Wilkins.

 A review. Alterations in the function and structure of the blood vessel wall account for most clin. events in the cornonary and cerebrovascular circulation such as myocardial infarction and stroke. Cardiovascular drugs may exert beneficial effects on the vascular wall both at the level of the endothelium and vascular smooth muscle cells. Therefore, endothelial mediators, in particular nitric oxide (NO) and endothelin (ET), are of special interest. Drugs can modulate the expression and actions of NO. a vasodilator with antiproliferative and antithrombotic properties, and of ET, a potent vasoconstrictor and proliferative mitogenic agent. The most successful drugs in this context are statins and angiotensin-converting enzyme (ACE)-inhibitors. While statins increase the expression of NO synthase. ACE-inhibitors increase the release of NO via bradykinin-mediated mechanisms. Antitoxidant properties of drugs are also important, as oxidative stress is crucial in atherosclerotic vascular disease. These properties may explain part of the effects of calcium antagonists and ACE-inhibitors. Indeed, angiotensin II stimulates NAO(P)H oxidases responsible for the formation of superoxide, which inactivates NO. ACE-Inhibitors thus increase the bioavailability of NO. Newer cardiovascular drugs such as nebivolol are able to directly stimulate NO release from the event with the concarry and cerebrovascular circulation such as myocardial infarction and stroke. Cardiovascular drugs may exert beneficial effects in the vessel wall by preventing the effects of ET at its receptors and b

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ANSWER 19 OF 123 CAPLUS COPYRIGHT 2003 ACS
1:935406 Document No. 135:48448 Method using a rapamycin in the treatment of cardiovascular disease. Azrolan, Neal Ivan: Sehgal, Surendra Nath: Adelman. Steven Jay (American Hobe Products Corporation, USA). PCT Int. Appl. No. 2001097809 A2 20011227. I 7P.D. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, OM, OZ, EC, EE, ES, FI, GB, GD, GE, GH, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, NN, MM, MX, MZ, NO, MZ, PL, PT, RO, RU, SD, SE, SG, ST, SK, SL, TJ, TM, TT, TZ, LM, GG, UZ, VN, VU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH; RW; AT, BE, BB, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR, (English). CODEN: PIXXD2. APPLICATION: WO 2001-US19179 20010614. PRIORITY: US 2000-PV212117 20000616.
PRIORITY: US 2000-PV212117 20000616.
The invention provides a method of treating or inhibiting cardiovascular. cerebral vascular, or peripheral vascular disease in a mammal in need thereof, which comprises providing the mammal an effective amt. of a repamycin.
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- rapamycin cardiovascular cerebrovascular peripheral vascular ST disease
- Angiotensin receptor antagonists
 (angiotensin II: rapamycin compd. for treatment of
 cardiovascular disease)
 - Brain. disease
 (cerebrovascular: rapamycin compd. for treatment of cardiovascular disease)

- ANSWER 20 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) inhibitors, and mixts, thereof. The invention further provides methods for treating or preventing ischemic heart disorders, myocardial infarction, angina pectoris, stroke, migraine, cerebral hemorrhage, cardiac fatalities, transient ischemic attacks, complications following organ transplants, coronary artery bypasses, angioplasty, endarterectomy, atherosclerosis, pulmonary embolism, bronchial asthma, bronchitis, pneumonia, circulatory shock of various.

 Angiotensin receptor antagonists (angiotensin fil: thromboxane inhibitors, compns., and methods for therapeutic use)
- and methods for therapeutic use)

- Page 9

 L1 ANSWER 20 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2001:868218 Document No. 136:694 Thromboxane inhibitors. compositions, and methods for therapeutic use. Saenz de Tejada. Inigo (Nitromed, Inc.. USA). PCT Int. Appl. NO 2001089519 A1 20011129. 70 pp. DESIGNATED STATES: N: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DN, DM, DZ, EC, EE, ES, FJ, GB, GO, EG, EH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, ND, MG, MK, MM, MM, MY, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, US, NZ, AY, AM, AZ, BY, KG, KZ, ND, RU, TJ, TM, RW; AT, BE, BF, BJ, CF, GG, CH, CI, CM, CY, DE, DK, ES, FJ, FR, GA, GB, GR, IE, IT, UM, MM, MR, NE, ML, PT, SE, SN, TD, TG, TR, (English). CODEN: PIXX02. APPLICATION: NO 2001-US16318 20010522. PRIORITY: US 2000-PV205536 20000522.

 AB The invention describes methods for treating or preventing sexual dysfunctions in males and females, and for enhancing sexual responses in males and females, by administering a therapeutically effective amt, of at least one thromboxane inhibitor, and, optionally, at least one compd. that donates, transfers, or releases intric oxide, elevates endogenous levels of endothelium-derived relaxing factor, stimulates endogenous synthesis of nitric oxide or is a substrate for nitric oxide eynthese, and/or at least one vasoactive agent. The male or female may preferably be diabetic. The invention also provides compos. comprising at least one thromboxane inhibitor, and, at least one compd. that donates, transfers or releases nitric oxide eynthase, and/or at least one vasoactive agent. The male or female may preferably be diabetic. The invention further provides methods for intric oxide or is a substrate for nitric oxide synthase, and or at least one thromboxane inhibitor, and at least one compd. that donates, transfers or releases nitric oxide synthase, and or nitric oxide or synthase or oxide synthase or oxide or oxide or oxide or oxide or oxide synthase.

 In t

L1 ANSWER 21 OF 123 CAPLUS COPYRIGHT 2003 ACS 2001:824362 Document No. 137:41454 Pre-treatment with candesartan protects from cerebral ischaemia. Ito. Takeshi: Nishimura, Yasuaki: Saavedra, Juan (Section on Pharmacology, NIHM, HM, Bethesda, MO, 20092, USA). JRAAS. 2(3). 174-179 (English) 2001. CODEN: JRAAAG. ISSN: 1470-3203.

- (Section on Pharmacology, NIMH, NIH, Bethesda, MO. 20092, USA). JRAAS. 2(3). 174-179 (English) 2001. CODEN: JRAAAG. ISSN: 1470-3203. Publisher: JRAAS Ltd..
 Angiotensin II (Ang II) regulates cerebral blood flow by stimulating cerebral vasoconstriction via ATI- receptors. In adult spontaneously hypertensive rats (SHR), the cerebrovascular autoregulatory curve is shifted to the right. In the direction of higher blood pressures. an indication of excessive cerebrovascular vasoconstriction. A restricted capacity to dilate cerebral blood vessels may be responsible for the enhanced vulnerability to cerebrovascular ischemia during hypertension. We found that chronic treatment with the ATI-receptor antagonist. candesartan. (0.5 mg/kg/day for 14 days. via osmotic minipumps implanted in the s.c. tissue) blocked Ang II binding to ATI-receptors in cerebral blood vessels and in brain areas involved in the regulation of cerebrovascular flow. and increased the ratio of lumen-wall area in the middle cerebral artery. Candesartan treatment normalized the lower part of the autoregulatory curve in SHR, and markedly decreased cerebral ischemia as a consequence of middle cerebral artery occlusion with reperfusion. Protection from ischemia is related to arterial remodelling, enhanced compensatory vasodilatation in the peripheral area of ischemia. Accreased red. in cerebral blood flow following the occlusion of a major cerebral blood vessel, and protection from injury in the periphery of the lesion. Our results indicate that pre-treatment with ATI-antagonists such as candesartan could be of benefit in the prevention and treatment of brain ischemia.
- candesartan could be of benefit in the prevention and treatment of brain ischemia.

 Angiotensin II (Ang II) regulates cerebral blood flow by stimulating cerebral vasoconstriction via ATI- receptors. In adult spontaneously hypertensive rats (SRM), the cerebrovascular autoregulatory curve is shifted to the right, in the direction of higher blood pressures, an indication of excessive cerebrovascular vasoconstriction. A restricted capacity to dilate cerebral blood vessels may be responsible for the enhanced vulnerability to cerebrovascular ischemia during hypertension. We found that chronic treatment with the ATI-receptor antagonist, candesartan. (0.5 mg/kg/day for 14 days, via osmotic. . . tissue) blocked Ang II binding to ATI-receptors in cerebral blood vessels and in brain areas involved in the regulation of cerebrovascular flow, and increased the ratio of lumen-wall area in the middle cerebral artery. Candesartan treatment normalized the lower part of Angiotensin receptor antagonists (angiotensin II: pre-treatment with candesartan protects from cerebral ischemia)

- ANSWER 22 OF 123 CAPLUS COPYRIGHT 2003 ACS
 11:710805 Document No. 136:353152 Genetic risk factors for cerebral infarction. Tamura. Mitsuru; Ito. Daisuke (School of Medicine. Keio University. Japan). Molecular Medicine (Tokyo. Japan). 38(Rinji Zokango. Seikatsu Shykanbyo). 364-359 (Japanese) 2001. CODEN: MOLMEL. ISSN: 0918-6557. Publisher: Nakayama Shoten. A review. on the title topic. discussing genetic risk factors in atherosclerosis and thrombotic disorders: atherosclerosis- and hypertension-assocd. factors (e.g. apolipoprotein E. apolipoprotein LP(a). angiotensin-converting enzyme and angiotensin II receptors. No synthase, methylenetetrahydrofolate reductase, paraoxonase. CD antigens. etc): and factors in assocn. with thrombotic disorders (Diood-coagulation factors, protothrombin. thrombomodulin: fibrinogen, etc).

- Atherosclerosis
 - Thrombosis
- (genetic risk factors for cerebral infarction)
- animal
- Gene. animal
 RL: ADV (Adverse effect. including toxicity): BSU (Biological study.
 unclassified): BIOL (Biological study)
 (genetic risk factors for cerebral infarction)
- Diagnosis
 (genetic: genetic risk factors for cerebral
- infarction)
- - Brain, disease (infarction; genetic risk factors for cerebral infarction)

- ANSWER 23 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
- Renin-angiotensin system

 (renin-angiotensin system on cerebral perfusion following subarachnoid hemorrhage)
- Meninges (subarachnoid hemorrhage: renin-angiotensin system on cerebral perfusion following subarachnoid hemorrhage)
- Nervous system
 - (sympathetic; renin-angiotensin system on cerebral perfusion following subarachnoid hemorrhage)

- subarachmotd hemorrhage)
 Angiotensin receptors
 RL: 80C (Biological occurrence): BSU (Biological study, unclassified):
 BIOL (Biological study): 0CCU (Occurrence)
 (type ATI: renin-angiotensin system on cerebral perfusion following subarachmoid hemorrhage)
 51-41-2. Noradrenaline 1128-99-7. Angiotensin-II
 RL: 80C (Biological occurrence): BSU (Biological study, unclassified):
 BIOL (Biological study): 0CCU (Occurrence)
 (renin-angiotensin system on cerebral perfusion following subarachmoid hemorrhage)
 9015-94-5. Renin, biological studies
 RL: BSU (Biological study, unclassified): BIOL (Biological study)
 (renin-angiotensin system on cerebral perfusion following subarachmoid hemorrhage)

Page 10

- L1 ANSWER 23 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2001:695120 Document No. 136:3888 Impact of the renin-angiotensin system on
 cerebral perfusion following subarachnoid hemorrhage
 in the rat. Fassot. Celine: Lambert. Gavin: Elghozi. Jean-Luc: Lambert.
 Elisabeth (INSERM E 0107. Faculte de Medecine. Paris. 75270, Fr.).
 Journal of Physiology (Cambridge, United Kingdom), 535(2), 533-540
 (English) 2001. CODEN: JPHYA7. ISSN: 0022-3751. Publisher: Cambridge
- Ournal of Physiology (Cambridge, United Kingdom), 535(2), 533-540 (English) 2001. CODEN: JPHVA7. ISSN: 0022-3751. Publisher: Cambridge University Press.

 1. This study investigated the effects of blocking the ATI angiotensin receptors with irbesartan, either peripherally or centrally, on systemic blood pressure. Intracranial pressure and cerebral perfusion pressure following exptl. subarachnoid hemorrhage (SAH) in urethane-anasthetized rates. Sympathetic nervous activation was detd. by measuring plasma noradrenaline levels. 2. In untreated animals. SAH induced a sustained increased in intracranial pressure from 2.1.+-0.3 to 16.+-2 mm Hg (3 h. P < 0.001). Cerebral perfusion pressure was reduced by 20% (P < 0.001). this redn. being maintained for 3 h. Sympathetic activation was evident in the high level of plasma noradrenaline measured 3 h post-SAH (751.+-104 vs. 405.+-33 pg ml-1, P < 0.05). 3. Acute peripheral pretreatment with irbesartan (3 mg kg-1, 1.1v.) prevented the rise in plasma noradrenaline and further aggravated the decrease in cerebral perfusion pressure by producing transient systemic hypotension (blood pressure was 85.+-6 mmkg at 2 h post-SAH vs. 100.+-3 mmkg, P < 0.01). 4. Intracisternal pretreatment with irbesartan (0.03 smg) did not prevent the rise in plasma noradrenaline post-SAH vs. 100.+-3 mmkg, P < 0.01). 4. Intracisternal pretreatment with irbesartan (0.03 smg) did not prevent the rise in plasma noradrenaline post-SAH but enhanced the rise in intracranial pressure by 75x compared with untreated animals. 5. This study demonstrates that peripheral endogenous angiotensin II in the brain seems to exert a protective effect by counteracting the elevation in intracranial pressure that occurs following sAH. Endogenous angiotensin receptors with irbesartan. either peripherally or centrally, on systemic blood pressure. Intracranial pressure that occurs following exptl. SAH.

 Impact of the rentn-angiotensin system on cerebral perfusion following exptl. SAH. in urethane-anasthetized rats. Sympathetic n

- following exptl.. renin angiotensin system brain subarachnoid hemorrhage
- ANSWER 24 OF 123 CAPLUS COPYRIGHT 2003 ACS

 21:672361 Document No. 136:214735 Relation between the renin-angiotensin gene system and endothelial NO synthase gene polymorphism and angiocomplications of type 2 diabetes mellitus. Sergeeva. T. V.; Chistyakov. D. A.; Kobaiova. Zh. D.; Moiseev. V. S. (Kafedra Vnutrennikh Boleznei, Ross. Univ. Druzhby Narodov. Moscow. Russia). Problemy Endokrinologii. 47(4). 18-23 (Russian) 2001. COODEN: PROEAS. ISSN: 0375-9660. Publisher: Izdatel'stvo Meditsina.

 The insertion/deletion (I/D) polymorphism of angiotensin I-converting enzyme (ACE) gene. IT/4M (threonine substitution for methionine in position 174 of amino acid sequence) polymorphism of angiotensinogen (AGT) gene. All66C polymorphism of angiotensin II vascular (type 1) receptor (ATIR) gene. and ecNOS4A/4b polymorphisms of endothelial NO synthase (NOS3) gene were studied by the polymerase chain reaction uncomplicated (control. n. = 52) and complicated with cardiovascular disorders. n. = 50). Protective effect of 1/I genotype on development of myocardial infarction in diabetics was shown. The absence of significant differences in the distribution of alleles and genotypes of AGT gene in three groups of patients indicates that this gene is hardly involved in the formation of cardiovascular complications in type 2 diabetes. A strong assocn. between Al166 C polymorphism of AZTIR gene and development of myocardial infarction in patients with type 2 diabetes. A strong assocn. between Al166 C polymorphism of AZTIR gene and development of myocardial infarction in patients with type 2 diabetes and essential hypertension of the Moscow population was revealed: allele A and genotype AA attenuate the risk of early myocardial infarction, in a sea sea descential hypertension of NOS3 gene cardiovascular diseases was detected in patients with type 2 diabetes and essential hypertension of the Moscow population was revealed: allele A and genotype AA attenuate the risk of early myocardial infarction, in 164 and genotype A/4b ard promorphism o
- Brain, disease
 - ain, disease (cerebrovascular: renin-angiotensin gene system and endothelial nitric oxide synthase gene polymorphism and angiocomplications of NIDDM)

ANSWER 25 OF 123 CAPLUS COPYRIGHT 2003 ACS
31:540627 Oocument No. 135:165387 Diabetic macroangiopathy and genetic polymorphisms in Japanese patients with type 2 diabetes. Muto. Kazuko: Uchigata. Yasuko: Honda. Masashi; Otani. Toshika: Iwamoto. Yasuhiko (Dep. Med. III. Diabetes Cent.. Tokyo Women's Med. Univ. Sch. Hed.. Japan). Tokyo Joshi Ika Dajaku Zasshi. 716.65. 319-330 (Japanese) 2001. CODEN: TJIZAF. ISSN: 0040-9022. Publisher: Tokyo Joshi Ika Dajaku Gakkai. The main cause of mortality in type 2 diabetic patients is macroangiopathy including coronary heart disease (CHD). cerebrovascular disease (CVD). and obstructive atherosclerosis (ASO). Recent genetic studies showed that these vascular diseases in non-diabetic patients were largely assocd, with certain genetic polymorphisms. We therefore investigated the relationship between macroangiopathy and the genetic polymorphisms in Japanese patients with type 2 diabetes by a case-control study. A total of 157 patients with type 2 diabetes by a case-control study. A total of 157 patients with type 2 diabetes were divided into 81 with either CHD. CVD or ASO (pos. group) and 76 without all (neg. group). Two groups were matched with age, duration, Ithalc and lipid metab. Healthy individuals who had no abnormality of glucose and lipid metabs. served as controls. The gene polymorphisms used in this study were as follows: the deletion/insertion allele of angiotensin-converting enzyme (ACE) gene. 1166A/C allele of angiotensin II type I receptor (ATIR) gene. PIAI/PIA2 allele of platelet glycoprotein III a receptor (GPIIIa) gene. Taglia and Int14G/A allele of cholesteryl ester transfer protein (CETP). 1886ly/Glu allele of platelet glycoprotein III areceptor of paraoxonase (PON) gene. and 677C/T allele of methylenetetrahydrofolate reductase (MTHFR) gene. These gene polymorphisms in healthy control were on the way to Hardy-Weinberg equil. The result showed that there was no statistical difference in the polymorphisms between the pos. and neg. groups. It suggests that the dev

L1 ANSWER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS
2001:453059 Document No. 135:46172 Preparation of N-isoxazolyl
biphenylsulfonamides and related compounds as dual angiotensin
II and endothelin receptor antagonists. Murugesan, Natesan:
Tellew, John E.; Macor, John E.; Gu, Zhengxiang (Bristol-Myers Squibb Co.,
USA). PCT Int. Appl. NO 2001044239 A2 20010621, 287 pp. DESIGNATED
STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN,
CR, CU, CZ, DE, DC, DM, EE, ES, FI, GB, GO, EE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MO, MG,
MK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR,
GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, N. PT, SE, SN, TD, TG, TR,
CENGlish). CODEN: PIXXOZ. APPLICATION: NO 2000-1533730 20001213.
PRICRITY: US 1999-464037 19991215: US 2000-643640 20000822.

Title compds. (I; R1 = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, triazolyl, quinolinyloxy, etc.; R2 = H. halo, CHO, (halolalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, NOZ, etc.; R3 = heteroaryl; with provisos) were prepd, as dual angiotensin II and endothelin receptor antagonists for treatment of hypertension and other diseases (no data). Thus, 4-Br.GML(R2D) was coupled with [2-[[(4,5-dimethyl-3-isoxazolyl)](2-methoxyethoxy)methyl]amino]sul fonyl]phenyl]boronic acid to give N-(4,5-dimethyl-3-isoxazolyl)-4-(hydroxymethyl)-N-[(2-methoxyethoxy)methyl][1:1-biphenyl]2-sulfonamide (668). This was brominated to give the 4'-bronomethyl deriv. (90%), reacted with 2-butyl-1.3-diazaspiro[4,4]non-1-en-4-one hydrochloride, and deprotected (49% for two steps) to give II.

(49% for two steps) to give II.

Preparation of N-isowazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor

antagonists. CHD. (halo)alkyl. cycloalkylalkyl. alkenyl. alkynyl. alkoxyalkyl. alkoxy. cyano. OH. NO2. etc.: R3 = heteroaryl: with provisos) were prepd. as dual angiotensin II and endothelin receptor

L1 ANSWER 26 OF 123 CAPLUS COPYRIGHT 2003 ACS
2001:467861 Document No. 136:303865 The angiotensin II
receptor antagonist candesartan cilexetil (TCV-116) ameliorates retinal
disorders in rats. Nagisa N.: Shintani, A.: Nakagawa, S. (Pharmaceutical
Research Division. Pharmacology Research Laboratories II. Takeda Chemical
Industries. Osaka. Japan). Diabetologia. 44(7). 883-888 (English) 2001.
COCNE. DBTGAJ. ISSN: 0012-1868. Publisher: Springer-Verlag.

AB The results of the EUCLID trial (EURODIAB Controlled Trial of Lisinopril
in Insulin-dependent Diabetes Hellitus) highlighted the importance of the
renin-angiotensin system in the pathogenesis of diabetic retinopathy.
Candesartan cilexetil (TCV-116). a potent angiotensin II
(AII) receptor antagonist. has beneficial effects on
hypertension as well as on heart. renal, and cerebrovascular
disease. The authors aimed to evaluate the effectiveness of candesartan
cilexetil in ameliorating retinal disorders induced by hyperglycenia.
Methods. The authors compared retinal vascular endothelial growth factor
(VEGF) mRNA expression and the latencies of retinal oscillatory potentials
in TCV-116-treated and control groups of stroke-prone spontaneously
hypertensive rats with streptozocin (ST2)-induced diabetes. Results.
Retinal VEGF mRNA expression was significantly higher and the latencies of
oscillatory potentials were significantly elongated in ST2-treated
spontaneously hypertensive rats compared with a mon-treated spontaneously
hypertensive rat group matched for age. These changes were dependent on
hyperglycenia but independent of hypertension. Treatment with TCV-116 (3
mg/kg) significantly diminished retinal VEGF mRNA expression and the
latencies of oscillatory potential peaks, but had no effect on plasma
glucose concns. These results suggest that TCV-116 is effective in
preventing the development of diabetic retinopathy already in the early
stages.

TI The angiotensin II receptor antagonist candesartan

The angiotensin II receptor antagonist candesartan cilexeti (TCV-116) aneliorates retinal disorders in rats

Diabetes Mellitus) highlighted the importance of the renin-angiotensin system in the pathogenesis of diabetic retinopathy. Candesartan cilexetil (TCV-116), a potent angiotensin II (AII) receptor antagonist, has beneficial effects on hypertension as well as on heart, renal, and cerebrovascular disease. The authors aimed to evaluate the effectiveness of candesartan cilexetil in ameliorating retinal disorders induced by hyperglycemia. Methods. The.

Angiotensin receptor antagonists

(angiotensin II: candesartan cilexetil (TCV-116) ameliorates retinal disorders in rats)

ANSWER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) antagonists for treatment of hypertension and other diseases (no data). Thus. 4-BrC6H4CH2CH was coupled with [2-[[(4.5-dimethyl-3-isoxazolyl)[(2-methoxyethoxyethyl]amino]sulfonyl]phenyl]boronic acid.

methoxyetnoxy/metry/jamino/sulrion/jpheny/jamino-boson

IT Endothelin receptors
RL: BPR (Biological process): BSU (Biological study, unclassified): MSC
(Miscellaneous): BIOL (Biological study): PROC (Process)
(antagonists: prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

IT Prostate gland
(benion buneralasia treatment; prepn. of N-isoxazolyl

ostate gland (benign hyperplasia, treatment; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual **angiotensin** II and endothelin receptor antagonists)

Sexual behavior (disorder, treatment of female; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

Heart, disease

Kidney. disease
(failure, treatment; prepn. of N-isoxazolyl biphenylsulfonamides and
related compds. as dual angiotensin II and
endothelin receptor antagonists)

endothelin receptor antagonists)

IT Sexual behavior (impotence, treatment; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

IT Antiarteriosclerotics

Antiasthmatics

Antiasthmatics
Antihypertensives
Antimypertensives
Antimyperaine agents
Antimyraine agents
Antimyraine agents
Antimyraine agents
(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as
dual angiotensin II and endothelin receptor
antagonists)
Growth inhibitors, animal
RL: BAC (Biological activity or effector. except adverse): BSU (Biological
Study. unclassified): SPN (Synthetic preparation): THU (Therapeutic use):
BIOL (Biological study): PREP (Preparation): USES (Uses)
(prepn. of N-isoxazolyl) biphenylsylfonamides and related compds. as
dual angiotensin II and endothelin receptor
antagonists)
Artery. disease

IT Artery, disease (restenosis, treatment; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

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ANSWER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
                        (subarachnoid hemorrhage, treatment; prepn. of
N-isoxazolyl biphenylsulfonamides and related compds. as dual
angiotensin II and endothelin receptor antagonists)
                         creatment: prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin
254738-28-8P
254738-33-5P
254738-33-5P
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254738-48-2P
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254738-58-4P
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254739-82-7P 254739-83-8P
     ANSMER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

254742-31-9P 254742-33-1P 254742-35-3P 254742-36-4P 254742-37-5P 254742-38-6P 254742-47-7P 254742-41-1P 254742-45-5P 254742-46-6P 254742-47-7P 254742-49-9P 254742-51-3P 254742-53-5P 254742-68-4P 254742-56-9P 254742-66-0P 254742-60-4P 254742-68-2P 254742-70-6P 254742-71-7P 254742-71-7P 254742-77-9P 254742-78-4P 254742-98-4P 254742-98-4P 254742-99-5P 254742-91-1P 254742-91-2P 254742-98-9P 254742-98-4P 254742-98-4P 254742-99-7P 254742-99-3P 254742-91-1P 254742-91-3P 254742-98-4P 254742-99-9P 254742-91-1P 254742-19-2P 254742-98-4P 254742-99-9P 254743-10-5P 254743-16-9P 254743-10-5P 254743-16-9P 254743-16-9P 254743-16-9P 254743-20-9P 254743-28-7P 254743-18-4P 254743-28-4P 2
                      (a) The properties of the property surromanues and related composts as dual angiotensin II and endothelin receptor

antagonists)

254743-29-8P

254743-30-1P

254743-31-P

254743-31-P

254743-31-P

254743-33-P

254743-9-P

254743-9-P

254743-9-P

254743-9-P

254743-9-P

254744-03-P

254744-03-P

254744-03-P

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254744-03-P

254744-03-P

254744-13-3P
                               254744-13-3P
RL: BAC (Biological activity or effector. except adverse): BSU (Biological study. unclassified): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. of N-isoxazoly) biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)
56-12-2. 4-Mminobutyric acid. reactions 75-03-6. Iodoethane 78-09-1. Tetrapethyl cythographogate 79-03-8. Propionyl chloride 79-44-7.
                                   56-12-2. 4-Aminobutyric acid, reactions 75-03-6, Iodoethane 78-09-1. 
Tetraethyl orthocarbonate 79-03-8. Propionyl chloride 79-44-7. 
Dimethylcarbomyl chloride 95-89-6. 2-Chloro-3.6-dimethylpyrazine 
109-81-9. N-Methylethylenediamine 124-40-3. Dimethylamine, reactions 
127-08-2. Potassium acetate 541-41-3. Ethyl chloroformate 543-27-1. 
Ethoxyacetic acid 638-29-9, Valeryl chloride 676-58-4. Methylmagnesium
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L1 ANSWER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
254739-84-9P 254739-85-0P 254739-86-1P 254739-87-2P 254739-89-3P
254739-94-1P 254739-97-7P 254739-91-8P 254739-92-9P 254739-93-0P
254739-99-4P 254739-95-2P 254739-96-3P 254739-97-4P 254739-98-5P
254739-99-6-P 254740-00-6P 254740-01-2P 254740-07-3P 254740-07-3P 254740-07-3P 254740-07-3P 254740-07-3P 254740-07-3P 254740-07-3P 254740-07-3P 254740-10-8P 254740-11-8P 254740-11-8P 254740-11-8P 254740-11-8P 254740-11-8P 254740-11-8P 254740-11-8P 254740-12-1P 254740-22-2P 254740-23-3P 254740-24-4P 254740-30-3P 254740-26-6P 254740-27-4P 254740-38-8P 254740-29-9P 254740-30-3P 254740-31-3P 254740-32-4P R: BAC (Biological activity or effector, except adverse): BSU (Biological study): PREP (Preparation): MIC (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. of N-isoxazoly) biphenylsul fonamides and related compds. as dual angiotensis II and endothelin receptor
      254740-66-4P 254740-67-5P 254740-17-1P 254740-77-2P 254740-18-3P 254740-82-4P 254740-91-5P 254740-91-1P 254741-06-5P 254741-17-4P 254741-16-1P 254741-17-4P 254741-16-4P 25474
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L1 ANSWER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) chloride 680-15-9 767-00-0, 4-Cyanophenol 865-33-8, Potassium methoxide 873-75-6, 4-Bromobenzyl alcohol 111-97-1.

N-Methoxy-N-methylamine 1122-91-4, 4-Bromobenzaldehyde 1450-75-5 1530-32-1, Ethyltriphenylphosphonium bromide 1609-86-5, tert-Butyl isocyanate 2835-98-5 2905-25-1, 2-Bromobenzensulfonyl chloride 3959-07-7, 4-Bromobenzyl amine 485-82-9, 2,3-Dichloropyrazine 5326-34-1, 4-Bromo-3-nitrotoluene 6228-47-3, Propyltriphenylphosphonium bromide 6482-24-2, 1-Bromo-2-methoxyethane 13734-41-3 14508-49-7, 2-Chloropyrazine 14678-02-5, 5-Maino-3-methylisoxazole 2059-22-9. Acatamide oxime 22844-93, 1sobutyltriphenylphosphonium bromide 28466-21-9, 4-Amino-1.3,5-trimethylpyrazole 29006-02-8 33670-32-5, Methoxymethyltriphenylphosphonium bromide 3428-47-7, 34841-06-0. 3-Bromo-4-methoxybenzaldehyde 40155-28-0, 2-Chloro-3-methoxypyrazine 41963-20-6, 4-Bromo-3-methylbenzontrile 53596-60-4 60421-23-0 74410-26-7 76513-69-4, 2-Citrimethylsilylbethoxymethyl chloride 78775-11-8 87199-17-5, 4-Formylphenylboronic acid 8946-88-7, 9-2-mino-3-methoxy-5-methylphyrazine 98946-18-0, tert-Butyl 2, 2, 2-trichloroacetimidate 109072-25-5 120077-69-2 124750-49-8 125110-82-9, -4mino-3-methoxy-5-methylphyrazine 98946-18-0, tert-Butyl 2, 2, 2-trichloroacetimidate 109072-25-5 120077-69-2 124750-49-8 125110-82-9, -4mino-3-methoxy-5-methylphyrazine 98946-18-0, tert-Butyl 2, 2, 2-trichloroacetimidate 109072-25-5 120077-69-2 124750-49-8 125110-82-9, -4mino-3-methoxy-5-150303-15-7 160313-50-8 162647-41-8 167985-34-4 176961-13-0 195436-86-3 254746-77-5 254746-78-6 254746-79-7 254746-80-0 254746-80-0
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Z34/49-81-1
RL: RCT (Reactant): RACT (Reactant or reagent)
(prepn. of N-isoxazoly) biphenylsulfonamides and related compds. as
dual angiotensin II and endothelin receptor

(prepn. of N=150Xacury) operations of the complete antagonists'

14847-51-9P 79047-47-5P 89003-95-2P 123652-98-2P 142031-67-2P 160313-48-4P 176961-30-1P 189762-06-9P 189762-08-1P 190197-86-5P 254744-14-4P 254744-15-5P 254744-16-6P 254744-17-7P 254744-18-8P 254744-14-4P 254744-02-2P 254744-21-3P 254744-22-4P 254744-28-0P 254744-29-1P 254744-25-7P 254744-21-3P 254744-27-9P 254744-28-0P 254744-29-1P 254744-35-7P 254744-31-5P 254744-37-1P 254744-38-0P 254744-39-1P 254744-39-1P 254744-39-1P 254744-39-1P 254744-49-6P 254744-40-6P 254744-41-7P 254744-47-7P 254744-38-2P 254744-39-1P 254744-59-1P 254744-59-1P 254744-59-1P 254744-59-1P 254744-99-6P 254744-65-4P 254744-99-6P 254744-91-7P 254744-88-8P 254744-90-6P 254744-91-7P 254744-99-1P 254745-19-1P 254745-1 254745-45-4P 254745-51-2P 254745-51-2P 254745-57-8P 254745-63-P 254745-63-P 254745-73-8P 254745-80-7P 254745-81-7P 254745-85-2P 254745-86-3P 254745-48-7P 254745-56-5P 254745-55-6P 254745-55-6P 254745-60-3P 254745-61-4P 254745-62-5P 254745-68-1P 254745-78-3P 254745-72-7P 254745-78-3P 254745-79-4P 254745-82-9P 254745-83-0P 254745-84-1P

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ANSHER 27 OF 123 CAPLUS COPYRIGHT 2003 ACS 254745-87-4P 254745-88-5P 254745-88-6P 254745-92-1P 254745-93-2P 254745-99-8P 254745-97-6P 254745-99-8P 254746-03-7P 254746-08-P 254746-06-0P 254746-03-7P 254746-08-P 
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               254746-75-3P 254746-76-4P 254746-82-2P RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual anglotensin II and endothelin receptor
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ANSWER 28 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
Renin-angiotensin system
(renin-angiotensin and vasopressin systems in acute and chronic
alterations in blood pressure variability following expti.

subarachnoid hemorrhage)

SUDATACHNOIG NEGOTTHAGE)
VASOPTESSIN TECEPOTES
RE: ADV (Adverse effect. including toxicity): BPR (Biological process):
BSU (Biological study. unclassified): BIOL (Biological study): PROC

rocess)
(renin-angiotensin and vasopressin systems in acute and chronic
alterations in blood pressure variability following exptl. subarachnoid hemorrhage)

Meninges

ninges (subarachnoid hemorrhage: renin-angiotensin and vasopressin systems in acute and chronic alterations in blood pressure variability following exptl. subarachnoid hemorrhage

)
11000-17-2. Vasopressin 11128-99-7. angiotensin II
RL: ADV (Adverse effect. including toxicity): BAC (Biological activity or effector. except adverse): BSU (Biological study. unclassified): BIOL (Biological study)

Orogical SUMBY/
(renin-angiotensin and vasopressin systems in acute and chronic alterations in blood pressure variability following exptl. subarachnoid hemorrhage)

Page 13

L1 ANSWER 28 OF 123 CAPLUS COPYRIGHT 2003 ACS
2001:207388 Document No. 135:75027 Acute and chronic alterations in blood pressure variability following experimental subarachnoid haemorrhage. Fassot. C.: Lambert. E.: Lambert. G.: Friberg. P.: Elghozi. J.-L. (INSERN EDIO7. Biomecanique et Pharmacologie de la Paroi Arterielle. Paris. 75670. Fr.). Regulatory Peptides. 99(1), 31-39 (English) 2001. COOEN: REPPDY. ISSN: 0167-0115. Dublisher: Elsevier Science Ireland Ltd..

AB This study examd. the role of the renin-angiotensin and vasopressin systems on systolic blood pressure (SBP) variability following subarachnoid hemorrhage (SAH) in conscious rats.

Animals received no treatment. the angiotensin II ATI receptor antagonist. NaPX. SAH resulted in a transient sympathetic activation as estd. from the increase in the mid-frequency oscillations of SBP (3.2 mm Hg2. 3 h after the injury vs. 1.3 mm Hg2 in control conditions). On the second and fourth day following SAH. a marked elevation in the low-frequency component of SBP was obsd. (7.1 mm Hg2 on day 2 vs. 2.6 mm Hg2 in control conditions). Pre-treatment with losartan prevented the acute rise in the mid-frequency oscillations in SBP and partially reduced the low-frequency component obsd. at 2 and 4 days. Administration of AVPX on the second and fourth day following SAH normalized the elevated low-frequency component obsd. at 2 and 4 days. Administration of AVPX on the second and fourth day following SAH normalized the elevated low-frequency oscillations in SBP. This study indicates that the modifications in SBP variability obsd. in the early and delayed stage after subarachnoid hemorrhage involve angiotensin II. Vasopressin seems to be implicated in the delayed development of low-frequency fluctuations of SBP.

This study examd. the role of the renin-angiotensin and vasopressin systems on systolic blood pressure (SBP) variability following subarachnoid hemorrhage involve angiotensin II. Vasopressin seems to be implicated in the delayed development of low-frequency fluctu

Angiotensia receptors
RL: ADV (Adverse effect, including toxicity); BPR (Biological process);
BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(ATI: renin-angiotensin and vasopressin systems in acute and chronic alterations in blood pressure variability following exptl. subarachnoid hemorrhage)

IT Blood pressure

ANSWER 29 OF 123 CAPLUS COPYRIGHT 2003 ACS

01:136:306 Document No. 135:90868 Renin-angiotensin system gene polymorphisms. Blood pressure. dyslipidemia. and diabetes in Hong Kong Chinese: A significant association of the ACE insertion/deletion polymorphism with type 2 diabetes. Thomas, G. Neil: Tonlinson, Brian; Chan, Juliana C. N.: Sanderson, John E.: Cockram. Clive S.: Critchley. Julian A. J. H. (Division of Clinical Pharmacology. Department of Medicine and Therapeutics. The Prince of Wales Hospital. The Chinese University of Hong Kong, Shatin, Peop. Rep. China). Diabetes Care, 24(2), 366-361 (English) 2001. CODEN: DICAD2. ISSN: 0149-5992. Publisher: American Diabetes Association. Inc.
In Chinese populations, hypertension is common and is a major risk factor for cerebrovascular and coronary heart disease, particularly when assocd, with diabetes. The clustering of these disorders and dyslipidemia and obesity is termed the metabolic syndrome and is increasing in prevalence in the populations of modernizing Asian nations. The renin-angiotensin system (RAS) helps maintain blood pressure and salt homeostasis and may play a role in the pathogenesis of aspects of the metabolic syndrome. We investigated three RAS gene polymorphisms-the ACE insertion/deletion (1/D), angiotensinogen (AGT) M235T, and angiotensin II type I receptor (ATIR) Al166C.
polymorphisms-for a possible role in modulating these disorders in 853 Chinese subjects with varying components of the metabolic syndrome. The three gene polymorphisms of this cross-sectional study were detected using polymerase chain reaction-based protocols. The genotype frequencies were compared between the controls (n = 119) and both overlapping and nonoverlapping groups of patients with type 2 diabetes, hypertension, and dyslipidemia using ohi/12 test. Differences in levels of the biochem, parameters between the genotypes were detd. using anal. of variance. No significant relationship was identified between these polymorphism and blood pressure in this population. Phila pat

- L1 ANSWER 30 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) (antagonists: preventives for recurrence of cerebrovascular failure contg. benzimidazoles as angiotensin II
- antagonists)
 114798-26-4. Losartan 133040-01-4. Eprosartan 137862-53-4. Valsartan
 138402-11-6. Irbesartan 139481-59-7. Candesartan 14469-63-4.
 01mesartan 144701-48-4. Telmisartan 145040-37-5. Candesartan cilexetil
 145733-36-4. Tasosartan 147403-03-0
 RL: THU (Therapeutic use): BIOL (Biological study): USES (Uses)
 (preventives for recurrence of cerebrovascular failure contg.
 benzimidazoles as angiotensin II antagonists)

- L1 AKSMER 30 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2001:63850 Document No. 134:120961 Preventives for recurrence of cerebrovascular failure and agents for ameliorating troubles following cerebrovascular failure and inhibiting progress thereof. Ojima. Mami: Kitayoshi. Takahito: Miyamoto. Masaomi (Takeda Chemical Industries. Ltd.. Japan). PCT Int. Appl. No. 2001005428 A1 20010125. 43 pp. DESIGNATED STATES: W. Ra. Ma. M. AZ. MA. AZ. BA. BB. BB. BB. BB. BV. CA. CN. CR. CU. CZ. DM. DZ. EE. GO. GE. HR. HU. ID. IL. IN. IS. JP. KG. KR. KZ. LC. LK. LR. LT. LV. NA. MD. MG. MK. NNI. NX. MZ. NN. NZ. PL. RO. RU. SG. SI. SK. TJ. TM. TR. TT. UA. US. UZ. VN. YU. ZA. AM. AZ. BY. KG. KZ. MD. RU. TJ. TM. RW. AT. BE. BF. BJ. CF. GG. CH. CI. CM. CY. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. MC. ML. MR. NE. NL. PT. SE. SN. TD. TG. (Japanese). COODEN: PIXXDZ. APPLICATION: WO 2000-JPA830 20000719. PRIGRITY: JP 1999-205877 19990721.

 AB Disclosed are benzmidazole derivs. as preventives for the recurrence of cerebrovascular failure and agents for ameliorating troubles following cerebrovascular failure and inhibiting the progress thereof which contain compds. having an antagonism to angiotensin II. prodrugs thereof or salts of the same. For example. a capsule contg. candesartan cilexetil 30. lactose 90. microcryst. cellulose 70. and magnesium stearate 10 mg can be formulated.

 TI Preventives for recurrence of cerebrovascular failure and inhibiting progress thereof Disclosed are benzmidazole derivs. as preventives for the recurrence of cerebrovascular failure and agents for ameliorating troubles following cerebrovascular failure and inhibiting progress thereof bisclosed progress thereof or salts of the same. For example, a capsule contg. candesartan cilexetil 30. lactose 90. microcryst. cellulose 70. and inhibiting progress thereof or salts of the same. For example, a capsule contg. candesartan cilexetil 30. lactose 90. microcryst. cellulose 70. angiotensin antagonist benzmidazole deriv cerebrovascular
- failure: capsule candesartan cilexetil cerebrovascular failure prevention
- Drug delivery systems
 (capsules: preventives for recurrence of cerebrovascular
 failure contg. benzimidazoles as angiotensin II antagonists)
- Brain, disease (cerebrovascular: preventives for recurrence of cerebrovascular failure contg. benzimidazoles as angiotensin II antagonists)
- angiotensin II antagonists)

 II Drug delivery systems
 (tablets; preventives for recurrence of cerebrovascular
 failure contg. benzimidazoles as angiotensin II
 antagonists)

 II 11128-99-7. Angiotensin II
 RL: BSU (Biological study. unclassified): BIOL (Biological study)

- L1 ANSWER 31 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2000:864914 Document No. 135:44517 Relationship between angiotensin
 II type I receptor gene and cerebral infarction
 in Chinese. Zhang. Chen: Wang. Huiyuan: Luo. Bing (Department of
 Neurology. The Affiliated Hospital of Quingdao University Medical College.
 Tsingtao. 266003. Peop. Rep. China). Qingdao Daive Yixueyuan Xuebao.
 36(3). 164-166 (Chinese) 2000. CODEN: ODYXAE. Publisher: Qingdao Daxue
 Yixueyuan Xuebao Bhanjibu.

 AB Objective: To ascertain the relationship between angiotensin
 II type I receptor (AIIR) gene polymorphism and cerebral
 infarction (CI) in Chinese. Methods 196 cases were analyzed by
 polymerase chain reaction.digestion of restriction enzyme and
 electrophesis for the 1166C variation at the 3'-untranslated region of
 ATIR gene. Results: The genotype frequencies of 1166A/166A, 1166A/1166C,
 1166C/1166C were 0.759 5 (60779). 0.215 2 (17779). 0.025 3 (2779) in the
 control: 0.532 3 (33/62). 0.305 5(19/62). 0.161 3 (10/62) in the CI and
 0.545 5(30/55). 0.400 0 (22/55). 0.054 5 (35/55) in the HTN group resp. The
 allelic gene frequency of 1166C was 0.132 9 in the control group. 0.314 5
 in the CI group and 0.254 5 in the HTN. There was significant increase in
 1166C genotype frequency between CI and control (.CHI.2 = 11.3992. P <
 0.01). HTN and control (.CHI.2 = 6.793 3. P < 0.05). and allelic frequency
 of 1166C between CI and control (.CHI.2 = 13.679 7. P < 0.01). HTN and
 control (.CHI.2 = 6.421 8. P < 0.05). In female.the allelic gene
 frequency of 1166C was 0.102 6 in the control 0.0333 3 in the CI and 0.333
 3 in the HTN group. There was significant increase in allelic frequency
 of 1166C between female CI and control (.CHI.2 = 11.3392. P <
 1.01). HTN and
 control (.CHI.2 = 11.66 8. P < 0.05). In female.the allelic gene
 frequency of 1166C was 0.102 6 in the control 0.0333 3 in the CI and 0.333
 3 in the HTN group. There was significant increase in allelic frequency
 of 1166C between female CI and control (.CHI.2 = 11.3633. P < 0.01). HTN
 and control (.CHI.2 = 11.1

- infarction
 Angiotensin receptors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (ATI: relationship between angiotensin II type I
 receptor gene and cerebral infarction in Chinese
- humans)
 Gene, animal
 RL: BOC (Biological occurrence): BSU (Biological study, unclassified): PRP
 (Properties): BIOL (Biological study): OCCU (Occurrence)
 (ATIR: relationship between angiotenshi II type I
 receptor gene and cerebral infarction in Chinese humans)
- IT Brain disease
 (infarction: relationship between angiotensin II
 type I receptor gene and cerebral infarction in Chinese humans)

ANSWER 31 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) Genetic polymorphism Genotypes (relationship between angiotensin II type receptor gene and cerebral infarction in Chinese 11128-99-7, angiotensin II ILICA-199-7. anysocems in II
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(relationship between anglotensin II type I
receptor gene and cerebral infarction in Chinese

L1 ANSHER 32 OF 123 CAPLUS COPYRIGHT 2003 ACS 2000:858350 Document No. 135:40690 A multicenter. randomized. double-blind study of the antihypertensive efficacy and tolerability of irbesartan in patients aged gioreq.65 years with mild to moderate hypertension. Lacourcière. Yves (Hypertension Unit. Centre Hospitalier Universitaire Laval, Quebec City, Oc. Can.). Clinical Therapeutics. 22(10). 1213-1224 (English) 2000. CODEN: CLTHOG. ISSN: 0149-2918. Publisher: Excerpta

Lacourctere. View (Hypet Learn) of Chinical Therapeutics, 22(10), 1213-1224 (English) 2000. CDDEN: CLTHOD. ISSN: 0149-2918. Publisher: Excerpta Hedica. Inc.

Blockade of the renin-angiotensin-aldosterone system (RAAS) is the preferred mechanism of action for controlling hypertension in select groups of patients. Including those with diabetic nephropathy and heart failure. Currently, 2 classes of drugs work by blocking the RAAS, albeit by differing mechanisms: angiotensin-converting enzyme (ACE) inhibitors and angiotensin II angiotensin type 1 receptor blockers (ARBS). The goal of this study was to assess the comparative efficacy and tolerability of the ARB irbesartan and the ACE inhibitor enalapril in patients. gioreq,65 yr of age yet thin mild to moderate hypertension (sitting diastolic blood pressure (DBP). 95 to 110 mm Hg). Elderly (.gtoreq,65 yr of age) patients were recruited from 26 Canadian study centers for a randomized, double-blind. 8-wk clin. trial. Exclusion criteria included sitting DBP >110 mm Hg or sitting systolic blood pressure (SBP) >200 mm Hg, angina pectoris. myocardial infarction, cardiac procedure. stroke, or transfert ischemic attack within 6 mo of randomization, as well as other preexisting or present severe medical or psychol. conditions. Patients were randomly assigned to receive a single daily dose of irbesartan 150 mg (n = 70) or enalapril 10 mg (n = 71) with treatment dose of study drugs doubled at week 4 for sitting DBP storeq. 90 mm Hg. Redns. from baseline blood pressure measurements at trough (24 +-. 3 h after the last dose of medication) were assessed for sitting DBP and sitting SBP. Comparative tolerability to study drugs was also assessed. The intent-to-treat anal. demonstrated similar redns. at week 8 in both DBP and SBP for both groups. For the primary efficacy anal. of sitting DBP and SBP for both groups. For Daseline of 9.6 mm Hg and 9.8 mm Hg for the irbesartan and enalapril groups. Pep. 9.31). Normalization rates (sitting DBP <90 mm Hg) at week 8 did not differ between

- L1 ANSWER 33 OF 123 CAPLUS COPYRIGHT 2003 ACS
 2000:746952 Document No. 134:51217 Anglotensin II ATI
 blockade normalizes cerebrovascular autoregulation and reduces
 cerebral ischemia in spontaneously hypertensive rats. Mishimura, Yasuaki;
 1to. Takeshi: Saavedra. Juan M. (Section on Pharmacology, National
 Institute of Mental Health, Bethesda, NO. 2092. USA). Stroke. 31(10).
 2478-2486 (English) 2000. CODEN: SJCCA7. ISSN: 0039-2499. Publisher:
 Lippincott Williams & Wilkins.

 Background and Purpose- Anglotensin II. through
 stimulation of ATI receptors. not only controls blood pressure but also
 modulates cerebrovascular flow. We sought to det. whether
 selective ATI antagonists could be therapeutically advantageous in brain
 ischemia during chronic hypertension. Methods- We pretreated
 spontaneously hypertensive rats (SRR) and normotensive Wistar-Kyoto
 controls with the ATI antagonist candesartan (CV-11974). 0.5 mg/kg per
 day. for 3 to 14 days. via s.c. implanted osmotic minipumps. We analyzed
 cerebral blood flow by laser-Doppler flowmetry. cerebral stroke in SRR
 after occlusion of the middle cerebral artery with reperfusion. and brain
 ATI receptors by quant. autoradiog. Results- Candesartan treatment
 normalized blood pressure and the shift toward higher blood pressures at
 both the upper and lower limits of cerebrovascular
 autoregulation in SRR. Candesartan pretreatment of SRR for 14 days
 partially prevented the decrease in blood flow in the marginal zone of
 ischemia and significantly reduced the vol. of total and cortical infarcts
 after either 1 or 2 h of middle cerebral artery occlusion with
 reperfusion. relative to untreated SRR. resp. This treatment also
 significantly reduced brain edema after 2 h of middle cerebral artery.
 Conclusions- Pretreatment with an ATI antagonist protected hypertensive
 rats from brain ischemia by normalizing the cerebral blood flow response.
 probably through ATI receptors not only controls blood pressure but also
 modulates cerebrovascular flow. We sought to det. whether
 selective ATI antagon

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ANSWER 33 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
(AT1: angiotensin II AT1 blockade normalizes
cerebrovascular autoregulation and reduces cerebral ischemia in
spontaneously hypertensive rats)
 Anti-ischemic agents
Hypertension
           percension
(angiotensin II ATI blockade normalizes
cerebrovascular autoregulation and reduces cerebral ischemia in
spontaneously hypertensive rats)
            ccueation
(cerebral: angiotensin II ATI blockade normalizes
cerebrovascular autoregulation and reduces cerebral ischemia in
spontaneously hypertensive rats)
            (ischemia: angiotensin II ATL blockade normalizes cerebrovascular autoregulation and reduces cerebral ischemia in spontaneously hypertensive rats)
 Brain, disease
  Artery (middle cerebral: candesartan effect on cerebral angiotensin II ATI receptors and cerebrovascular autoregulation in spontaneously hypertensive rats)
             (nucleus tractus solitarii: candesartan effect on cerebral
angiotensin II ATI receptors and
cerebrovascular autoregulation in spontaneously hypertensive
 Brain

(postrema area; candesartan effect on cerebral angiotensin

II ATI receptors and cerebrovascular autoregulation
in spontaneously hypertensive rats)

I128-9-7. Angiotensin II

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study)
(angiotensin II ATI blockade normalizes
cerebrovascular autoregulation and reduces cerebral ischemia in
spontaneously hypertensive rats)
139481-59-7. (V-11974

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(angiotensin II ATI blockade normalizer
                cangiotensin II AT1 blockade normalizes
cerebrovascular autoregulation and reduces cerebral ischemia in
                 spontaneously hypertensive rats)
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L1 ANSWER 34 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

Page 16

11 ANSWER 34 OF 123 CAPLUS COPYRIGHT 2003 ACS 2000:743385 Document No. 134:305109 Reducing cardiovascular morbidity and mortality in the elderly. Trenkwalder. Peter (Department of Medicine. Starnberg Hospital). University of Munich. Starnberg. Germany). Blood Pressure. Supplement (1), 40-43 (English) 2000. CODEN: BPSUEY. ISSN: 0803-8023. Publisher: Scandinavian University Press.

AB Candesartan cilexetil is highly effective at lowering blood pressure, while maintaining placebo-like tolerability. In a wide range of patient groups. Although the benefit of lowering blood pressure in elderly patients with moderate hypertension has been demonstrated in several large-scale clin. trials. elderly patients with Midhypertension have rarely been studied. The high incidence of cardiovascular and cerebrovascular mortality and morbidity. Including dementia, in the elderly means that control of blood pressure is particularly important in this patient group. A major new international clin. trial - SCOPE (Study on Cognition and Prognosis in the Elderly). has therefore been initiated. This is a prospective, randomized, double-blind, parallel comparison of the effects of candesartan cilexetil. 8 or 16 mg once daily, and placebo in about 5000 patients who will be followed for a mean of 2.5 yr. SCOPE is the first study designed to assess the effect of antihypertensive therapy in elderly patients (70-99 yr of age) with mild hypertension (sitting systolic blood pressure of 160-179 mmly and/or sitting diastolic blood pressure of 90-99 yr of major with mild hypertensive therapy in elderly patients (70-99 yr of age) with mild hypertensive therapy in elderly patients (70-99 yr of age) with mild hypertensive therapy subjective is to det. the effect of understally stoke and myocardial infarction, and silent myocardial infarction), while an important secondary objective is to det. the effect of sould provide definitive evidence of the cardiovascular and cerebrovascular benefits of treating mildly hypertensive lederly patients with

L1 ANSWER 35 OF 123 CAPLUS COPYRIGHT 2003 ACS 2000:692024 Document No. 134:172549 Angiotensin II and renin-angiotensin system antagonist affect the cerebral circulation. Adzhienko. L. M. (Inst. Pharacol.. RAMS. Moscow. 125315, Russia). Eksperimental'naya i Klinicheskaya Fammakologiya. 63(4), 74-79 (Russian) 2000. CODEN: EKFAE9. ISSN: 0869-2092. Publisher: Izdatel'stvo Folium. AA review with 56 refs outlining the significant role that the renin-angiotensin system (RAS) plays in the regulation of cerebral circulation. The pharmacol. correction of cerebrovascular disorders by using RAS antagonists is discussed.

11 Angiotensin II and renin-angiotensin system antagonist affect the cerebral circulation. The pharmacol. correction of cerebral circulation. Resulting the significant role that the renin-angiotensin system (RAS) plays in the regulation of cerebral circulation. The pharmacol. correction of cerebrovascular disorders by using RAS antagonists is discussed. is discussed.
Blood vessel
Renin-angiotensin system
(angiotensin II and renin-angiotensin system
antagonist affect the cerebral circulation) is discussed. antagonist affect the General Circulation (crepbral: angiotensin II and renin-angiotensin system antagonist affect the cerebral circulation) 11128-99-7. Angiotensin II RL: SSU (Biological study, unclassified): PRP (Properties): BIOL

(Biological study)
(angiotensin II and renin-angiotensin system antagonist affect the cerebral circulation)

ANSMER 36 OF 123 CAPLUS COPYRIGHT 2003 ACS
00:670765 Document No. 134:172536 Rationale for angiotensin
11 receptor blockers in patients with low-renin hypertension.
Jamerson, Kenneth A. (University of Michigan Medical Center, Ann Arbor, MI. 48109-0357, USA). American Journal of Kidney Diseases, 36(3, Suppl.)
1). S24-S30 (English) 2000. CODEN: AJKODP. ISSN: 0272-6386. Publisher: W. B. Saunders Co..
A review with 32 refs. African Americans outrank other ethnic groups in the United States in prevalence, early onset, and severity of hypertension. Furthermore. African Americans suffer the highest rates of mortality from cardiovascular, cerebrovascular, and end-stage renal disease. The recently concluded Heart Outcomes Prevention Evaluation (HOPE) study reports that the angiotensin-converting enzyme (ACE) inhibitor rampiril significantly reduced morbidity and mortality in a broad range of patients at high risk for cardiovascular events. These results strengthen the case for increasing the use of ACE inhibitor therapy. In accord with the Joint National Committee on Prevention. Detection. Evaluation, and Treatment of High Blood Pressure (JNC VI) guidelines, antihypertensive monotherapy for African Americans is based on the known ability of diuretics and calcium channel blockers to produce greater redns. In blood pressure in this population than those attainable with beta blockers and ACE inhibitors. The national guidelines also suggest ACE inhibitors for all hypertensive patients with left ventricular dysfunction or nephropathy, which implies that African Americans must cross a clin. threshold to become candidates for these agents. The rationale for delaying ACE inhibitor therapy is due in part to a perceived unique pathobiol. in hypertensive African Americans are not hypovolenic. Furthermore, dietary sodium restriction and diuretic therapy raise PRA and improve the response to ACE inhibitors. The overall aim of this article is to explain the rationale for expanded use of drugs that block the RAS in African Americans a

TI

ST

hypertension
Angiotensin receptor antagonists
(angiotensin II: rationale for angiotensin
II receptor blockers in patients with low-renin hypertension)

Antihypertensives

L1 ANSWER 37 OF 123 CAPLUS COPYRIGHT 2003 ACS
2000:506952 Document No. 124:28160 The relationship between
angiotensin II type 1 receptor gene polymorphism and
Chinese essential hypertension. Zhong, Ya; Ha. Daiwen (Department of
Gerontology, Second Affiliated Hospital, Hubei Medical University, 430071,
Peop. Rep. China). Hubei Yike Daxue Xuebao, 21(2), 124-127 (Chinese)
2000. CODEN: HYDXFU. ISSN: 1008-0724. Publisher: Hubei Yike Daxue
Xuebao Bianiibu.

Peop. Rep. China). Hubel Yike Daxue Xuebao. 21(2). 124-127 (Chinese) 2000. COOEN. HYDRFU. ISSN: 1008-0724. Publisher: Hubel Yike Daxue Xuebao Blanjibu. Objective: To identify the polymorphism of angiotensin II types 1 receptor (ATIR) gene in Chinese essential hyper-tension. Methods: This study included 70 hypertensive (involved 34 hypertension. Methods: This study included 70 hypertensive (involved 34 hypertension. AtiR) genotype was analyzed by polymerase chain reaction. digestion of restriction enzyme and electrophoresis. Results: The frequencies of C allele among the essential hyper-tension group (12.9%) were higher than those among the control group (3.6%, P-0.005). The frequencies of C allele were no difference between hypertensives complicated with coronary artery disease and hypertensives without cardiovascular or cerebrovascular diseases. Conclusion: The ATIR gene All66/C polymorphism is probably an important hereditary factor in Chinese essential hypertension. The relationship between angiotensin II type 1 receptor gene polymorphism and Chinese essential hypertension Objective: To identify the polymorphism of angiotensin II types 1 receptor (ATIR) gene in Chinese essential hypertension. Methods: This study included 70 hypertensive (involved 34 hypertensives complicated with. The frequencies of C allele were no difference between hypertensives complicated with coronary artery disease and hypertensives without cardiovascular or cerebrovascular diseases. Conclusion: The ATIR gene All66/C polymorphism is probably an important hereditary factor in Chinese essential hypertension. angiotensin II receptor gene polymorphism essential

hypertension Gene, animal

RL: BDC (Biological occurrence): BPR (Biological process): BSU (Biological study): OCCU (Occurrence): PROC (Process)

(Process)
(ATIR (angiotensin II type 1 receptor):
relationship between angiotensin II type 1 receptor
gene polymorphism and Chinese human essential hypertension)
Genetic polymorphism
(ATIR gene All66/C polymorphism: relationship between

angiotensin II type 1 receptor gene polymorphism and Chinese human essential hypertension) Angiotensin receptors

Angiotensin receptors
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(ATI: relationship between angiotensin II type 1
receptor gene polymorphism and Chinese human essential hypertension)

ΙT (essential; relationship between angiotensin II type 1 receptor gene polymorphism and Chinese human essential hypertension)

ANSWER 36 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) AMONEK DO UT 123 CAPILLS COPTICUENT 2000 ALS COUNT Hypertension (rationale for angiotensin II receptor blockers in patients with low-renin hypertension) 9015-94-5, Renin, biological studies 9015-94-5. Renin. biological studies RL: BDC (Biological occurrence): BSU (Biological study. unclassified): BIOL (Biological study): OCCU (Occurrence) (rationale for angiotensin II receptor blockers in patients with low-renin hypertension)

ANSWER 37 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

Genotypes

(relationship between angiotensin II type 1 receptor gene polymorphism and Chinese human essential hypertension)

- ANSWER 38 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1:390959 Document No. 133:12837 Clinical pharmacokinetics of
 angiotensin II (ATI) receptor blockers in hypertension.
 Israili. Z. H. (Emory University School of Medicine, Atlanta, GA. 30303.
 USA). Journal of Human Hypertension. 14(Suppl. 1). S73-S86 (English)
 2000. CODEN: JHHYEN. ISSN: 0950-9240. Publisher: Nature Publishing
- USA). Journal of Human Hypertension, 14(Suppl. 1). S73-S86 (English) 2000. CODEN: JHHFEN. ISSN: 0950-9240. Publisher: Nature Publishing Group.
 A review with 174 refs. Angiotensin II receptor blockers (ARBS) represent a new class of effective and well tolerated orally active antihypertensive agents. Recent clin. trials have shown the added benefits of ARBs in hypertensive patients (redn. in left ventricular hypertrophy, improvement in diastolic function, decrease in ventricular arrhythmias, redn. in microalbuminuria, and improvement in renal function), and cardioprotective effect in patients with heart failure. Several large long-term studies are in progress to assess the beneficial effects of ARBs on cardiac hypertrophy, renal function, and cardiovascular and cerebrovascular morbidity and mortality in hypertensive patients with or without diabetes mellitus, and the value of these drugs in patients with heart disease and diabetic nephropathy. The ARBs specifically block the interaction of angiotensin II at the AT. receptor, thereby relaxing smooth muscle, increasing salt and water excretion, reducing plasma vol., and decreasing cellular hypertrophy. These agents exert their blood pressure-lowering effect mainly by reducing peripheral vascular resistance usually without a rise in heart rate. Nost of the com. available ARBs control blood pressure for 24 h after once daily dosing. Sustained efficacy of blood pressure control, without any evidence of tackyphylaxis, has been demonstrated after long-term administration (3 yr) of some of the ARBs. The efficacy of ARBs is similar to that of thiazide divretics, beta-blockers, angiotensin-converting enzyme inhibitors or calcium channel blockers in patients with similar degree of hypertension. Higher daily doses, dietary salt restriction, and concomitant divretic or ACE inhibitor administration amplify the antihypertensive effect of ARBs. The ARBs have a low incidence of adverse effects (nedache, upper respiratory infection, back pain, muscle cramps, fatigue and dizziness)
- ANSWER 38 OF 123 CAPLUS COPYRIGHT 2003 ACS
- hypertrophy...Angiotensin receptor antagonists
 (angiotensin II; clin. pharmacokinetics of angiotensin II (ATI) receptor blockers in hypertension)
- Antihypertensives (clin. pharmacokinetics of angiotensin II (AT1) receptor blockers in hypertension)

Page 18

ANSWER 38 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) absorption/distribution, plasma protein binding, bioavailability, biotransformation, plasma half-life, and systemic elimination influence the time of onset, duration of action, and efficacy of the ARBS. On the basis of the daily mg dose, the anti-hypertensive potency of the ARBS follows the sequence: candesartan cilexetil > telmisartan | osartan > irbesartan valsartan > eprosartan. After oral administration, the ARBS are rapidly absorbed (time for peak plasma levels = 0.5-4 h) but they have a wide range of bioavailability (from a low of 13% for eprosartan to a high of 60-80% for irbesartan): food does not influence the bioavailability, except for valsartan (a redn. of 40-50%) and eprosartan (increase). A limited dose-peak plasma levels/areas under the plasma level-time curve proportionality is obsd. for some of the ARBS. Most of these drugs have high plasma protein binding (95-100%): irbesartan has the lowest binding among the group (90%). The steady-state vols. of distribution vary from a low of 9 L (candesartan) to a high of 500 L (telmisartan). Plasma elimination half-life is short for candesartan (1-24 h). intermediate for eprosartan and valsartan (1-13 h): the active metabolite of losartan has a longer half-life than for the parent drug. The drugs and their active metabolites do not accumulate to a significant extent after repeated dosing, except for telmisartan (100%). Nost of the orally administered dose of ARBs is excreted via bile into the feces: from 2% (telmisartan) to 3% (candesartan) of the oral dose is excreted in the urine. In most cases, changes in pharmacokinetic parameters due to aging, mild to moderate renal disease and heart failure do not require dosage modification: dosage has to be individualized for eprosartan, losartan. telmisartan and valsartan in patients with hepatic disease. In general, pharmacokinetic organger und telmisartan. The ARBs are an important treatment option for hypertension, being relatively safe and efficacious. Th

diabetic nephropathy.
Clinical pharmacokinetics of angiotensin II (AT1)

Clinical pharmacokinetics of anglotensin II (ATI) receptor blockers in hypertension A review with 174 refs. Anglotensin II receptor blockers (ARBs) represent a new class of effective and well tolerated orally active antihypertensive agents. Recent clin. trials have. . . long-term studies are in progress to assess the beneficial effects of ARBs on cardiac hypertrophy, renal function, and cardiovascular and cerebrovascular morbidity and morbidity in hypertensive patients with or without diabetes mellitus, and the value of these drugs in patients with heart disease and diabetic nephropathy. The ARBs specifically block the interaction of anglotensin II at the AT. receptor, thereby relaxing smooth muscle, increasing salt and water excretion, reducing plasma vol., and decreasing cellular

L1 ANSWER 39 OF 123 CAPLUS COPYRIGHT 2003 ACS
2000:281826 Document No. 133:236176 Response of the rabbit arteriosclerotic basilar artery to vasoactive substances. Ozaki. Masasnige (Dep. Neurosurgery. Osaka Medical College. Japan). Osaka ika Baigaku Zasshi. \$6(3). 26-35 (Japansee) 1999. CODEN: 0107AU. ISSN: 0030-6118. Publisher: Osaka Ika Daigaku Igakkai.

AB The present study was performed to examine the influence of arteriosclerosis on vascular tone and to investigate the possible involvement of arteriosclerosis in cerebral vasosspasm in a new line of Natanabe heritable hyperlipidenic (NHHL) rabbits. For these purposes, vascular responses of isolated basilar artery rings to vasoconstricting and vasodilating substances were compared in HHL and age-matched Japanese white (JW) rabbits. In WHHL rabbit basilar arteries, endothelium-dependent relaxations caused by acetycholine were less potent than those seen in the JW rabbit arteries. while those caused by substance P did not differ between the two strains. Endothelium-independent relaxations caused by softium nitroprusside, an NO donor, and beraprost, a prostacyclin analog, did not differ. Contractions induced by endothelin (ET)-1 and by histamine were potent in the WHHL than in the JW rabbit arteries. However, contractions caused by servonin, neuropeptide Y, and angiotensin II were not different. Histol. observations by light microscopy revealed that arteriosclerotic lesions contg. fibromatous plaque were obsd. in WHH. but not JW. basilar arteries. It is suggested that endothelial functions responsible for NO synthesis and release do not seem to be impaired in arteriosclerotic cerebral arteries. but potentiated responses to ET-1 and histamine may promote cerebral vasospasm after subarachnoid hemorrhage.

AB histamine were potent in the WHH. than in the JW rabbit arteries. However, contractions caused by serotonin, neuropeptide Y, and angiotensin II were not different. Histol. observations by light microscopy revealed that arteriosclerotic lesions contg. fibromato

Brain, disease

cerebrum, vasospasm; basilar artery response to vasoactive substances in hyperlipidemic rabbits in relation to arteriosclerosis involvement in cerebral vasospasm after subarachnoid hemorrhage

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L1 ANSWER 40 OF 123 CAPLUS COPYRIGHT 2003 ACS 2000:209908 Document No. 132:241973 Pharmaceutical compositions containing an angiotensin II AT1 receptor antagonist and an antiplatelet agent. Cazaubon. Catherine: Herbert. Jean-Marc: Nisato. Dino (Sanofi-Symthelabo. Fr.). PCT Int. Appl. NO 2000016773 Al 20000330. 25 pp. DESIGNATED STATES: Nr. AE. AL. AM. AT. AU. AZ. BA. BB. BG. RB. BY. CA. CH. CN. CR. CU. CZ. DE. DK. DW. EE. ES. Ti. GB. GD. GE. GH. GH. HR. CH. DI. II. IN. 1S. JP. KE. KG. KP. KR. KZ. LC. LK. LR. LS. LT. LU. LV. MD. NS. MK. MN. MM. MK. NO. NZ. PL. PT. RO. RU. SD. SS. CS. SI. SK. SI. TJ. TH. TR. TT. LM. UG. US. UZ. VN. YU. ZA. ZN. AM. AZ. BY. KG. KZ. MO. RU. TJ. TH. RW. AT. BE. BF. BJ. CF. CG. CH. CI. CH. CY. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. NC. ML. NR. NE. NL. PT. SE. SN. TD. TG. (French). CODGN: PIXXOZ. APPLICATION: NO 1999-FR2128 19990908. PRIORITY: FR 1998-11747 19980907.
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PRIORITY: FR 1998-11747 19980921.
Pharmaceutical compns. Contg. an angiotensin II ATI
receptor antagonist and an antiplatelet agent are claimed. The
receptor antagonist and an antiplatelet agent are claimed. The
antithrombotic efficacy of 100 mg/kg irbesartan and 10 mg/kg clopidogrel
hydrogen sulfate is shown. A tablet contained irbesartan 50. clopidogrel
hydrogen sulfate 97.5. lactose 48.5. maize starch 44. talc 25.
polyvinylpyrrolidone 9. anhyd. colloidal silica 0.5. and magnesium
stearate 3 mg.
Pharmaceutical compositions containing an angiotensin II
ATI receptor antagonist and an antiplatelet agent
Pharmaceutical compns. contg. an angiotensin II ATI
receptor antagonist and an antiplatelet agent are claimed. The
antithrombotic efficacy of 100 mg/kg irbesartan and 10 mg/kg clopidogrel.

Angiotensin receptors
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(ATL. antagonists: pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent)

Heart, disease

art. unsease (angina pectoris; pharmaceutical compns. contg. angiotensin II AT1 receptor antagonist and antiplatelet agent)

ΙT

Artery
(angioplasty: pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent)
Antiarteriosclerotics
(antiatherosclerotics: pharmaceutical compns. contg.
angiotensin II ATI receptor antagonist and

angiotensin II ATl receptor antagonist and antiplatelet agent) Drug delivery systems (capsules: pharmaceutical compns. contg. angiotensin II ATl receptor antagonist and antiplatelet agent) Brain, disease

ain, disease (cerebrovascular: pharmaceutical compns. contg angiotensin II ATI receptor antagonist and antiplatelet agent)

ANSWER 40 0F 123 CAPLUS COPYRIGHT 2003 ACS (Contin (synergic: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent)

Antihypertensives (synergistic: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent) Drug delivery systems (tablets: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent)

Embolism (thromboembolism; pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent) art. disease

art. disease (ventricular fibrillation: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent)

Integrins
RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study): USES

(Uses)

(alpha.IIb.beta.3, antagonists: pharmaceutical compns. contg.
angiotensin II ATI receptor antagonist and
antiplatelet agent)
53885-35-1, Ticlopidine hydrochloride 120202-66-6. Clopidogrel hydrogen
sulfate 138402-11-6. Irbesartan
RL: BAC (Biological activity or effector, except adverse): BSU (Biological
study, unclassified): THU (Therapeutic use): BIOL (Biological study): USES
(Uses)

(pharmaceutical compns. contg. angiotensin II AT1 receptor antagonist and antiplatelet agent)

Page 19

ANSWER 40 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) (dementia: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent) Mental disorder Eye, disease
(diabetic retinopathy: pharmaceutical compns. contg.
angiotensin II ATI receptor antagonist and
antiplatelet agent)
Cardiovascular system
Cardiovascular system ΙT Cardiovascular system
(disease: pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent)
Prosthetic materials and Prosthetics
(endovascular: pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent)
Heart. disease
(failure: pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent) Dialysis (hemodialysis; pharmaceutical compns. contg. angiotensin II AT1 receptor antagonist and antiplatelet agent) Hall receptor anasonist and solutions and the search disease (infarction: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent) Orug delivery systems (injections. 1.v.: pharmaceutical compns. contg. angiotensin II ATI receptor antagonist and antiplatelet agent) Vein

(insufficiency: pharmaceutical compns. contg. anglotensin
II ATI receptor antagonist and antiplatelet agent)
Drug delivery systems
(oral: pharmaceutical compns. contg. anglotensin II
ATI receptor antagonist and antiplatelet agent) Drug delivery systems
(parenterals: pharmaceutical compns. contg. angiotensin
II ATI receptor antagonist and antiplatelet agent)

L1 ANSWER 41 OF 123 CAPLUS COPYRIGHT 2003 ACS
2000:140122 Document No. 133:72264 Renin-angiotensin-aldosterone system gene
polymorphisms and hypertension in Hong Kong Chinese. Thomas. G. Neil:
Young. Robert P.: Tomlinson, Brian: Moo. Kam Sang: Sanderson, John E.:
Critchley. Julian A. J. H. (Department of Medicine and Therapeutics. The
Chinese University of Hong Kong, Hong Kong, Peop. Rep. China). Clinical
and Experimental Hypertension. 22(1), 87-97 (English) 2000. CODEN:
CEHYER. ISSN: 1064-1963. Publisher: Marcel Dekker, Inc..
AB In Chinese populations. hypertension is common and is a major risk factor
for cerebrovascular and coronary heart disease. The
renin-angiotensin-aldosterone system (RASA) helps maintain blood pressure
and salt homeostasis and appears important in the pathogenesis of
hypertension and some forms of vascular disease. We investigated three
RAAS gene polymorphisms, the angiotensin-converting enzyme (ACE)
insertion/deletion. angiotensinogen (AGT) M2351 and angiotensin
II type 1 receptor All66C polymorphisms in 222 hypertensive and
178 normotensive Chinese subjects. The hypertensives were generally more
obese and dyslipidemic. No significant differences in genotype or allele
frequencies for any of the polymorphisms were identified between the
groups. nor was there any interactive contribution to blood pressure by
the ACE and ACE polymorphisms. However, there were large differences in
genotype and allele frequencies between the healthy Chinese and published
data for equiv. Caucasian populations. These findings suggest these
polymorphisms are unlikely to be involved in the pathogenesis of
hypertension in Chinese.

AB In Chinese populations, hypertension is common and is a major risk factor
for cerebrovascular and coronary heart disease. The
renin-angiotensin-aldosterone system (RAAS) helps maintain blood pressure
and salt homeostasis and appears important in the. . . . some forms of
vascular disease. We investigated three RAAS gene polymorphisms, the
angiotensin-converting enzyme (ACE) insertion

Aging, animal
Allele frequency
Genetic polymorphism Genotypes

Anticoagulants

Obesity
Population genetics
(ACE. angiotensinogen and angiotensin II type 1
receptor gene polymorphisms in hypertension in human Hong Kong Chinese)

Gene, animal
RL: BDC (Biological occurrence): BSU (Biological study, unclassified); PRP
(Properties): BIOL (Biological study); OCCU (Occurrence)
(AGT: ACE, angiotensinogen and angiotensin II type
1 receptor gene polymorphisms in hypertension in human Hong Kong

1 receptor gene polymorphisms in hypercases
Angiotensin receptors
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(ATI: ACE, angiotensinogen and angiotensin II type
1 receptor gene polymorphisms in hypertension in human Hong Kong

10/031.398

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ANSWER 41 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
                    Gene. animal
RL: BOC (Biological occurrence): BSU (Biological study. unclassified); PRP
(Properties): BIOL (Biological study): OCCU (Occurrence)
(ATIR: ACE. angiotensinogen and angiotensin II type
1 receptor gene polymorphisms in hypertension in human Hong Kong
(Chipnes)
                   Gene. animal
ΙT
                   Chinese)
Gene, animal
RL: BOC (Biological occurrence): BSU (Biological study, unclassified): PRP
(Properties): BIOL (Biological study): OCCU (Occurrence)
(Ace: ACE. angiotensinogen and angiotensin II type
1 receptor gene polymorphisms in hypertension in human Hong Kong
                                    Chinese)
                      Glycerides, biological studies
                       Glycerides, biological studies
RL: BDC (Biological occurrence): BSU (Biological study, unclassified):
BIOL (Biological study): OCCU (Occurrence)
(blood: ACE. angiotensinogen and angiotensin II
type 1 receptor gene polymorphisms in hypertension in human Hong Kong
Chinese)
   Thirds. biological studies
R: ADV (Adverse effect. including toxicity); BOC (Biological occurrence);
BSU (Biological study, unclassified); BIOL (Biological study); OCCU
                      BSU (Biological study, unclassified): SILL (Biological study, unclassified): (Occurrence)
(dyslipidemia: ACE. angiotensinogen and angiotensin
II type 1 receptor gene polymorphisms in hypertension in human
Hong Kong Chinese)
Lipoproteins
RL: 80C (Biological occurrence): BSU (Biological study. unclassified):
BIOL (Biological study): OCCU (Occurrence)
(high-d.: ACE. angiotensinogen and angiotensin II
type 1 receptor gene polymorphisms in hypertension in human Hong Kong
Chinese)
                       type I receptor gene polymorphisms in Nysothicases

57-88-5. Cholesterol. biological studies
RL: BOC (Biological occurrence): BSU (Biological study. unclassified):
BIO. (Biological study): OCCU (Occurrence)

(ACE. angiotensinogen and angiotensin II type 1
receptor gene polymorphisms in hypertension in human Hong Kong Chinese)

9015-82-1. Angiotensin-converting enzyme 11002-13-4. Angiotensinogen
(protein renin substrate)
RL: BSU (Biological study. unclassified): BIOL (Biological study)

(ACE. angiotensinogen and angiotensin II type 1
receptor gene polymorphisms in hypertension in human Hong Kong Chinese)
50-99-7. D-Glucose. biological studies
RL: BOC (Biological occurrence): BSU (Biological study. unclassified):
BIOL (Biological study): OCCU (Occurrence)
(blood: ACE. angiotensinogen and angiotensin II
type 1 receptor gene polymorphisms in hypertension in human Hong Kong
                                          Chinese)
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ANSWER 42 OF 123 CAPLUS COPYRIGHT 2003 ACS
1:111307 Document No. 132:146719 Role of renin-angiotensin system in regulation of cerebral circulation. Takishita. Shuichi (Div. Hypertension Nephrol. Natl. Cardiovasc. Cent... Japan). Horumon to Rinsho. 48(2). 125-132 (Japanese) 2000. CODEN: HORIAE. ISSN: 0045-7167. Publisher: Lorburo Schaffeb. 2000:111307

125-132 (Japanese) 2000. CODET, Northal, 1550 to 1550

Angiotensin receptor antagonists
(angiotensin II; pathophysiol. role of
renin-angiotensin system in regulation of cerebral circulation)

Page 20

- L1 ANSWER 41 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
- 69-93-2. Uric acid. biological studies 7440-23-5. Sodium. biological

69-93-2. Unic acros. Diological studies RL: BOC (Biological occurrence): BSU (Biological study, unclassified): BIOL (Biological study): OCCU (Occurrence) (plasma: ACE. angiotensinogen and angiotensin II type 1 receptor gene polymorphisms in hypertension in human Hong Kong Chierce)

ANSWER 43 OF 123 CAPLUS COPYRIGHT 2003 ACS
00:64537 Document No. 132:342571 Therapeutic options in minimizing left ventricular hypertrophy. Devereux. Richard B. (Division of Cardiology. New York Presbyterian Hospital/Cornell Medical Center. New York. NY.
10021. USA). American Heart Journal, 139(1. Pt. 2). 59-S14 (English)
2000. CODEN: AHJOA2. ISSN: 0002-8703. Publisher: Mosby. Inc.. A review with 29 refs. Left ventricular hypertrophy (LVH). a target-organ response to chronic pressure or vol. overload, is assood with its own independent risks of death in patients with hypertension. Numerous studies have shown that LVH increases the risk of coronary heart disease. congestive heart failure, stroke or transient ischemic attack. all-cause deaths, and sudden death. Although the mechanisms by which LVH develops are incompletely understood, the renin-angiotensin system may play on important role. All major classes of antihypertensive agents (calcium channel blockers, diuretics, beta.-blockers, andjotensin-converting enzyme inhibitors) can cause LVH regression but not all to the same degree. Angiotensin-converting enzyme inhibitors may provide the most pronounced redn. In left ventricular mass per mm of mercury of blood pressure redn. In addn., animal studies and human trials show promise for the regression of LVH with the use of angiotensin receptor blockers (ARBS). Becuase ARBs act specifically on the ATI receptor, angiotensin II can exert its favorable effects on cell growth inhibition through the ATZ receptor. One small study that compared the ARB valsartan with atenolol found significant regression of LVH with the ARB by 8 mo of treatment.

... with hypertension. Numerous studies have shown that LVH increases the risk of coronary heart disease, congestive heart failure. stroke or transient ischemic attack.
all-cause deaths. and sudden death. Although the mechanisms by which LVH develops are incompletely understood, the renin-angiotensin system may play. the regression of LVH with the use of angiotensin receptor

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L1 ANSWER 44 OF 123 CAPLUS COPYRIGHT 2003 ACS 2000:32745 Document No. 132:93309 Preparation of N-isoxazolyl bipherylsul fonamides and related compounds as dual anglotensin 11 and endothelin receptor antagonists. Murugesan, Natesan: Tellew, John E.: Macor. John E.: (Gu, Zhengxiang (Bristol-Myers Squibb Co., USA). PCT Int. Appl. NO 2000001389 Al 20000113. 283 pp. DESIGNATED STATES: W. AL. AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, CR, KZ, LC, LK, LR, LS, LT, LU, LV, ND, NG, NK, NM, NM, KN, NN, NZ, PL, PT, RO, RU, SD, SE, GS, SI, SK, SL, TJ, TM, TR, TT, LA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, HO, RU, TJ, TM, RW, AT, BE, BF, BJ, CF, CG, CH, CJ, CM, CY, DC, NC, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, (English). CODEN: PIXXOZ. APPLICATION: WO 1999-US15063 19990701. PRIORITY: US 1998-91847 19980706.
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AB Title compds. (I: R1 = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, triazolyl, quinolinyloxy, etc.; R2 = H, halo, CHO, alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, N02, etc.; R3 = heteroaryl; with provisos), were prepd. as dual angiotensin II and endothelin receptor antagonists (no data). Thus, 4-BrGMHCHOM was coupled with [2-[[(4.5-dimethyl-3-isoxazolyl)[(2-methoxyethoxy)methyl]minolsul fonyl]phenyl]boronic acid to give N-(4.5-dimethyl-3-isoxazolyl)-N-([(2-methoxyethoxy)methyl)H1]-1-biphenyl]-2-sulfonamide. This was brominated to give 4-bromomethyl-N-(4.5-dimethyl-3-isoxazolyl)-N-([(2-methoxyethoxy)methyl][[1.1-biphenyl]-2-sulfonamide. Which reacted with 2-butyl-1.3-diazaspiro[4.4]non-1-en-4-one hydrochloride followed by deprotection to give 4-[(2-butyl-4-oxo-1.3-diazaspiro[4.4]non-1-en-3-yl)methyl]-N-(4.5-dimethyl-3-isoxazolyl)[1.1-biphenyl]-2-sulfonamide.

TI Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor.

antagonists. . . . alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano. OH. NO2. etc.; R3 = heteroaryl; with provisos). were prepd.

ANSWER 44 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) dual angiotensin II and endothelin receptor antagonists)

Growth inhibitors, animal

Growth inhibitors, animal RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified): SPN (Symthetic preparation): THU (Therapeutic use); BIOL (Biological study); PREP (Preparation): USES (Uses) (prepn. of N-isoxacoly) bipheryl sulfonamides and related compds. as dual angiotensin II and endothelin receptor

Meninges

ninges (subarachnoid hemorrhage: prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

Endotoxemia

| Stchemia (treatment: preprior of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endotherin receptor antagonists) | 254737-84-3P | 254737-80-8P | 254737-90-1P | 254737-91-2P | 254737-91-2P | 254737-91-2P | 254737-91-2P | 254737-91-2P | 254738-01-2P | 254738-13-1P | 254738-11-2P | 254738-13-1P | 254738-11-2P | 254738-13-1P | 254738-11-2P | 254738-21-2P | 25473 254738-18-6P 254738-23-3P 254738-28-8P 254738-33-5P 254738-26-6P 254738-31-3P 254738-36-8P 254738-24-4P 254738-29-9P 254738-34-6P 254738-39-1P 254738-44-8P 254738-49-3P 254738-54-0P 254738-59-5P 254738-27-7P 254738-35-7P 254738-40-4P 254738-45-9P 254738-32-4P 254738-37-9P 254738-42-6P 254738-47-1P 254738-41-5P 254738-46-0P 254738-38-0P 254738-43-7P 254738-48-2P 254738-53-9P 254738-50-6P 254738-55-1P 254738-60-8P 254738-65-3P 254738-56-26 254738-52-8P 254738-57-3P 254738-62-0P 254738-67-5P 254738-61-9F 254738-59-5P 254738-64-2P 254738-69-7P 254738-74-4P 254738-80-2P 254738-90-4P 254738-95-9P 254739-00-4P 254739-10-1P 254739-15-6P 254739-20-3P 254739-20-3P 254738-58-4P 254738-63-1P 254738-68-6P 254738-73-3P 254738-66-4P 254738-71-1P 254738-70-0P 254738-75-5P 254738-81-3P 254738-86-8P 254738-91-5P 254738-76-6F 254738-72-2P 254738-78-8P 254738-83-5P 254738-73-37 254738-79-9P 254738-84-6P 254738-89-1P 254738-94-8P 254738-82-4F 254738-87-9P 254738-92-6P 254738-97-1P 254738-88-0P 254738-96-0P 254739-01-0P 254739-06-5P 254738-93-7P 254738-98-2P 254739-03-2P 254739-02-1P 254738-99-3P 254739-04-3P 254739-09-8P 254739-14-5P 254739-07-6P 254739-12-3P 254739-11-2P 254739-08-7P 254739-16-7P 254739-21-4P 254739-26-9P 254739-17-8F 254739-13-4P 254739-18-9P 254739-14-5P 254739-19-0P 254739-24-7P 254739-29-2P 254739-34-9P 254739-39-4P 254739-44-1P 254739-49-6P 254739-54-3P 254739-22-5P 254739-27-0P 254739-32-7P 254739-20-37 254739-25-8P 254739-30-5P 254739-35-0P 254739-40-7P 254739-23-6P 254739-31-6P 254739-28-1P 254739-31-6P 254739-36-1P 254739-41-8P 254739-46-3P 254739-51-0P 254739-56-5P 254739-37-2F 254739-33-8P 254739-38-3P 254739-42-9P 254739-47-4P 254739-52-1P 254739-45-2P 254739-50-9P 254739-55-4P 254739-43-0P 254739-48-5P 254739-57-6F

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L1 ANSWER 44 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) as dual angiotensin II and endothelin receptor antagonists (no data). Thus, 4-BrC6H4CH2OH was coupled with [2-[[(4.5-dimethyl-3-isoxacolyl)](2-methoxyethoxy)methyl]amino]sulfonyl]ph enyl[boronic acid to give N-(4.5-dimethyl-3-isoxacolyl)-4'-(hydroxymethyl)-N-[(2-methoxyethoxy)methyl][1.1'-biphenyl]-2-sulfonamide. This was
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enyl]boronic acid to give rid.:3-dimpenyl]-2-sulfonamide. This was brominated to.

If Angiotensin receptors Ri: BPR (Biological process): BSU (Biological study, unclassified); MSC (Miscellaneous): BIDL (Biological study): PROC (Process) (angiotensin II, antagonists; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

If Endothelin receptors Ri: BPR (Biological process): BSU (Biological study, unclassified): MSC (Miscellaneous): BIDL (Biological study): PROC (Process) (antagonists; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

If Antiarteriosclerotics: prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

If Prostate gland

IT Prostate gland

ostate glamu
(benign hyperplasia, treatment; prepn. of N-isoxazolyl
biphenylsulfonamides and related compds. as dual **angiotensin**II and endothelin receptor antagonists)

IT Sexual behavior

(disorder, treatment; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

IT Heart. disease
(failure. treatment: prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

endotherin receptor and a second form of the second

. Sexual behavior
(impotence, treatment; prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

IT Antiastmatics
Antihypertances.

Antihypertensives

Antimigraine agents

Antitumor agents
(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as

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L1 ANSMER 44 0F 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
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                                             254743-57-2P
                                         254743-63-0P
254743-68-5P
254743-73-2P
                                                 254743-78-7P
                                                 254743-93-6P
                                                     254743-98-1P
                                     254744-13-3P
RL: BAC (Biological activity or effector. except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological Study): PREP (Preparation): USES (Uses) (prepn. of N-isoxazoly) biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)
56-12-2. 4-Aminobutyric acid. reactions 75-03-6. Iodoethane 78-09-1. Tetraethyl orthocarbonate 79-03-8. Propionyl chloride 79-44-7.
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ANSWER 44 0F 123 CAPLUS COPYRIGHT 2003 ACS 254745-103-29 254745-08-9P 254745-03-4P 254745-08-9P 254745-12-5P 254745-30-4P 254745-42-3-8P 254745-38-3P 254745-31-8P 254745-39-6P 254745-42-2P 254745-51-2P 254745-50-1P 254745-10-6P 254746-10-6P 254746-10-6
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254746-68-4P
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RE: RLI (Reduction), 3 in Common of the Reactant or reagent)
(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor

L1 ANSWER 44 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
Dimethyl Carbamyl chloride 95-89-6. 2-Chloro-3.6-dimethyl pyrazine
109-81-9. N-Methylethylenediamine 124-40-3. Dimethyl amine. reactions
127-08-2. Potassium acetate 541-41-3. Ethyl chloroformate 543-27-1.
Isobutyl chloroformate 589-15-1. 4-Bromobenzyl bromide 677-03-2.
Ethoxyacetic acid 638-29-9. Valeryl chloride 676-58-4. Methylmagnesium
chloride 680-15-9 767-00-0. 4-Cyanophenol 865-33-8. Potassium
methoxide 873-75-6. 4-Bromobenzyl alcohol 111-797-1.
N-Methoxy-N-methylamine 1122-91-4. 4-Bromobenzaldehyde 1450-75-5
1530-32-1. Ethyltriphenylphosphonium bromide 1698-86-5. tert-Butyl
isocyanate 2835-98-5 2905-25-1. 2-Bromobenzenesulfornyl chloride
3959-07-7. 4-Bromobenzyl amine 4858-85-9. 2. 3-Dichloropyrazine
5326-34-1. 4-Bromo-3-mitrotoluene 6228-47-3. Propyltriphenylphosphonium
bromide 6482-24-2. 1-Bromo-2-methoxyethane 13734-41-3 14508-49-7.
2-Chloropyrazine 14678-02-5. 5-Amino-3-methylisoxazole 22059-22-9.
Acetamide oxime 22804-29-3. Isobutyltriphenylphosphonium bromide
Acetamide oxime 22804-29-3. Isobutyltriphenylphosphonium bromide 4862-47-3 4-Amino-1-3.5-trimethylpyrazole 29006-02-8 3670-32-5.
Methoxymethyltriphenylphosphonium bromide 34328-47-7 34841-06-0.
4-Bromo-4-methoxybenzaldehyde 40155-28-0. 2-Chloro-3-methoxypyrazine 49363-20-6. 4-Bromo-3-methylbenzonitrile 53553-14-3. Methyl
3719-17-5. 4-Formylphenylphosphonium bromide 78775-11-8
37199-17-5. 4-Formylphenylphosphonium bromide 78775-11-8
37199-17-5. 4-Formylphenylphosphonium bromide 78775-11-8
37199-17-5. 4-Formylphenylphosphonium bromide 78775-11-8
37199-17-5. 4-Formylphenylphosphonium bromide 78775-11-8
37199-17-7. Methyl 4-bromo-3-methylbenzoate 150691-04-6 151267-01-1
38309-63-3 264746-77-5 254746-78-6 254746-79-7 254746-80-0

254/40-81-1
RL: RCT (Reactant): RACT (Reactant or reagent)
(prepn. of N-isoxazolyl biphenylsulfonamides and related compds. as
dual angiotensin II and endothelin receptor

 dual angiotensia II and endothelin receptor

 14847-51-99
 79047-47-59
 89003-95-29
 123652-98-29
 142031-67-29

 160313-48-49
 717691-30-19
 189762-06-99
 189762-08-19
 190197-86-59

 254744-14-49
 254744-15-59
 254744-16-69
 254744-27-99
 254744-11-39
 254744-11-39
 254744-28-40-89
 254744-27-99
 254744-28-09
 254744-26-89
 254744-27-99
 254744-30-49
 254744-31-59
 254744-30-69
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L1 ANSWER 45 OF 123 CAPLUS COPYRIGHT 2003 ACS
1999:812115 Document No. 132:44367 Emerging treatments for hypertension:
potential role for vasopoptidase inhibition. Weber, Michael (Department
of Medicine, Brookdale Hospital Medical Center, Brooklyn, NY. 11212-3198,
USA). American Journal of Hypertension. 12(11, Pt. 2), 1395-1475
(English) 1999. CODEN: AJHYE6. ISSN: 0895-7061. Publisher: Elsevier
Screene Inc.

(English) 1999. CODEN: ALHKE6. ISSN: 0895-7061. Publisher: Elsevier Science Inc.
A review with 57 refs. Hypertension remains uncontrolled worldwide despite the availability of several classes of antihypertensive agents. There is an increased risk of serious cardiovascular.
There is an increased risk of serious cardiovascular, or or is poorly treated. Thus, the high incidence of hypertension coupled with its poor control make it imperative that more effective and well-tolerated treatments that exhibit target-organ protection be developed. Vasopeptidase inhibitors are a new class of cardiovascular agents that simultaneously inhibit neutral endopeptidase and angiotensin converting enzyme. They enhance peptides with vasodilatory and possibly enzyme. They enhance peptides with vasodilatory and possibly conspartial thas shown blood pressure-lowering effects independent of remin status and has increased survival in an animal model of congestive heart failure. Human studies with omapatrilat, the most clin. advanced failure. Human studies with omapatrilat, the most clin. advanced failure. Human studies area. Or gender. Onapatrilat is particularly effective in lowering systolic blood pressure: this article summarizes data from recent clin. trials. This drug is well tolerated, with adverse effects comparable to those of currently available antihypertensive agents. Onapatrilat and other vasopeptidase inhibitors have potential applications in the treatment of hypertension, heart failure, and other cardiac and vascular disorders.

in the treatment of hypertension, heart failure, and other customs vascular disorders.
. remains uncontrolled worldwide despite the availability of several classes of antihypertensive agents. There is an increased risk of serious cardiovascular, cerebrovascular, and renal events if the disease goes untreated or is poorly treated. Thus, the high incidence of hypertension coupled with. angiotensin converting enzyme. They enhance peptides with vasodilatory and possibly organ-protective properties and also inhibit the prodn. of the vasoconstrictor angiotensin II. In preclin, studies, cmapatrilat has shown blood pressure-lowering effects independent of renin status and has increased survival in an animal.

- L1 ANSWER 46 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1999.811090 Document No. 132:30836 Preventing cerebral
 infarction through administration of ADP-receptor antiplatelet and
 antihypertensive drugs in combination. Con1glio. Anthony A.: Plat.
 Francis R.: Blumenthal. Melvin S. (Bristol-Myers Squibb Company, USA).
 PCT Int. Appl. NO 9965500 Al 19991223. 20 pp. DESIGNATED STATES: W: AL
 AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES,
 FI, GB, GE, GH, GM, MU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
 LR, LS, LT, LU, LY, MO, MG, MK, MM, MM, MK, MO, NZ, PL, PT, RO, RU, SD,
 SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VM, YU, ZA, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, SM, AT, BE, BF, BD, CF, CG, CH, CI, CH, CY,
 DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE,
 SN, TD, TG, (English). CODEN: PIXXD2. APPLICATION: WO 1999-US12934
 19999609. PRIORITY: US 1998-89650 19980617.

 AB A method is provided for preventing a cerebral
 infarction by administering to a patient a combination of an
 ADP-receptor blocking antiplatelet drug, such as clopidogrel in
 combination with an antihypertensive agent such as an angiotensin
 AII antagonist (for example, irbesartan), an ACE inhibitor (for
 example, fosinopril) or a NEP/ACE inhibitor such as omapatrilat.
 Preventing cerebral infarction through administration
 of ADP-receptor antiplatelet and antihypertensive drugs in combination
 AB method is provided for preventing a cerebral
 infarction by administering to a patient a combination of an
 ADP-receptor infarction through administration
 of ADP-receptor antiplatelet and antihypertensive drugs in combination
 AI antagonist (for example, irbesartan), an ACE inhibitor (for
 example, fosinopril) or a NEP/ACE inhibitor such as an angiotensin
 AII antagonist (for example, irbesartan), and En inhibitor (for
 example, fosinopril) or a NEP/ACE inhibitor such as compatrilat.
 Cerebral infarction antiplatelet drug, such as clopidogrel, in
 combination: ADP receptor antagonist cerebral infarction
 : ACE inhibitor cerebra

: ACE inhibitor cerebral infarction
Purinoceptors
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(P2T. antagonists: preventing cerebral infarction
through administration of ADP-receptor antiplatelet and
antihypertensive drugs in combination)
Drug delivery systems
(capsules: preventing cerebral infarction through
administration of ADP-receptor antiplatelet and antihypertensive drugs
in combination)
Brain, disease
(infarction: preventing cerebral infarction through

(infarction: preventing cerebral infarction through administration of ADP-receptor antiplatelet and antihypertensive drugs in combination)

Antihypertensives

Anthypertensive Platelet aggregation inhibitors (preventing cerebral infarction through administration of ADP-receptor antiplatelet and antihypertensive drugs

- ANSWER 47 OF 123 CAPLUS COPYRIGHT 2003 ACS
- receptors. Saavedra. J. M. (Section on Pharmacology, National Institute of Mental Health, Bethesda. MO. USA). Regulatory Peptides. 85(1), 31-45 (English) 1999. CODEN: REPPDY. ISSN: 0167-0115. Publisher: Elsevier Science Ireland Ltd...
 A review with 73 refs. In mammalian brain, angiotensin
 II ATI and ATZ receptor subtypes are apparently expressed only in neurons and not in glia. ATI and ATZ receptor subtypes are sometimes closely assood. but apparently expressed in different neurons. Brain ATIZATZ interactions may occur in selective cases as inter-neuron cross talk. There are two ATI isoforms in rodents, ATIA, which predominates, and ATIB. There are also important inter-species differences in receptor expression. Relative lack of amino acid conservation in the gerbil gATIA receptors are expressed in brain areas regulating autonomic and hormonal responses. ATIA receptors are heterogeneously regulated in a no. of exptl. conditions. In specific areas, ATIA receptors are not normally expressed, but are induced under influence of reproductive hormones in colominately regulated. A picture is emerging of widespread, neuronally localized, heterogeneously regulated. Closely assocd brain angiotensin receptor subtypes, modulating multiple functions including neuroendocrine and autonomic responses, stress, cerebrovascular flow, and perhaps brain maturation, neuronal plasticity, memory and behavior.
- How. and permaps of this section of the section of

Page 23

- L1 ANSWER 46 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
- in combination)
 Drug delivery systems
- Drug delivery systems
 (tablets: preventing cerebral infarction through
 administration of ADP-receptor antiplatelet and antihypertensive drugs
 in combination)
 9015-82-1. Angiotensin-converting enzyme
 RL: BSU (Biological study. unclassified): BIOL (Biological study)
 (inhibitors: preventing cerebral infarction through
 administration of ADP-receptor antiplatelet and antihypertensive drugs
 in rephination)
- in combination)
 55142-85-3. Ticlopidine 62571-86-2. Captopril 75847-73-3. Enalapril 75647-98-3. Lisinopril 8541-61-8. Quinapril 86541-75-5. Benazepril 87333-19-5. Ramipril 87679-37-6. Trandolapril 98048-97-6. Fosinopril 113665-84-2. Clopidogrel 114798-26-4. Losartan 133040-01-4. Eprosartan 137862-53-4. Valsartan 13802-11-6. Irbesartan 139481-59-7. Candesartan 14701-48-4. Telmisartan 145733-36-4. Tasosartan RL: BAC (Biological activity or effector, except adverse): BSU (Biological study): USES (USes)

(preventing cerebral infarction through administration of ADP-receptor antiplatelet and antihypertensive drugs in combination)

- L1 ANSWER 48 0F 123 CAPLUS COPYRIGHT 2003 ACS 1999:686140 Document No. 132:206425 Beneficial effect of renin-angiotensin system for maintaining blood pressure control following subarachnoid haemorrhage. Fassot. C.: Lambert. G.: Gaudet-Lambert. E.: Friberg. P.: Elghozi. J.-L. (CNRS LWR 8604. Laboratoire de Pharmacologie, Faculte de Medecine Necker, Paris. Fr.). Brain Research Bulletin. 50(2). 127-132 (English) 1999. CODEN: BRBUDU. ISSN: 0361-9230. Publisher: Elsevier Srieger Inc.
- Eighozi, J.-L. (CIRS UMR 8604. Laboratoric de Pharmacologie, Faculte de Medecine Necker, Paris, Fr.). Brain Research Bulletin, 50(2), 127-132 (English) 1999. CODEN: BRBUOU, ISSN: 0361-9230. Publisher: Elsevier Science Inc.

 Subarachnoid hemorrhage is a serious condition often accompanied by delayed cerebral ischemia. Earlier reports have provided evidence suggesting a role for angiotensin II in the development of cerebral vasospasm following subarachnoid bleeding. The authors sought to examine the influence of angiotensin II blockade with losartan on blood pressure and survival in animals following expt. subarachnoid hemorrhage. induced in conscious rats by injecting homologous blood via a catheter placed along the surface of the brain. The authors combined measurements of plasma renin activity with blood pressure recording in order to examine renin-angiotensin system activation following expt. subarachnoid hemorrhage. Following subarachnoid injury an approx. threefold increase in plasma renin activity occurred (3.4 vs. 10.1 ng angiotensin I produced/mL/h). In animals treated with losartan (20 mg/kg) prior to the induction of subarachnoid hemorrhage blood pressure remained unchanged in control animals. Survival was markedly reduced in those animals treated with losartan. Given the pronounced decrease in blood pressure and inpaired survival following subarachnoid hemorrhage in animals treated with losartan. Given the pronounced decrease in blood pressure and impaired survival following subarachnoid hemorrhage is a serious condition often accompanied by delayed cerebral ischemia. Earlier reports have provided evidence suggesting a role for angiotensin I in the development of cerebral vasospasm following subarachnoid bleeding. The authors combined measurements of plasma renin activity with blood pressure and survival in animals following exptl. subarachnoid hemorrhage. Following subarachnoid injury an approx. threefold increase in plasma renin activity with blood pressure rend survival in produced/mL/h). In animal

- L1 ANSWER 48 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continue remin-angiotensin system following this insult is...
 ST remin angiotensin blood pressure subarachnoid hemorrhage

- Blood pressure
 (renin-angiotensin system in maintenance of blood pressure control
 following subarachnoid hemorrhage)
 Blood plasma
 (renin; renin-angiotensin system in maintenance of blood pressure
 control following subarachnoid hemorrhage in IT relation to)
- - inges (subarachnoid hemorrhage: renin-angiotensin system in maintenance of blood pressure control following subarachnoid
- 9015-94-5. Renin. biological studies 11128-99-7. Angiotensin
 - 11 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (rentn-angiotensin system in maintenance of blood pressure control following subarachnoid hemorrhage)

- ANSWER 50 OF 123 CAPLUS COPYRIGHT 2003 ACS

 19:414817 Document No. 131:209147 Angiotensin and cerebral blood flow.

 Saavedra, Juan M.: Nishimura. Yasuaki (Section on Pharmacology, National Institute of Mental Health. Bethesda, MD, 20892-1264 (ISA). Cellular and Molecular Neurobiology. 19(5), 553-573 (English) 1999. (CORN: CMKEDI. SSN: 0272-4340. Publisher: Kluwer Academic/Plenum Publishers.

 A review, with apprx.110 refs. The authors discuss the following topics: (1) General properties of the cerebral circulation. (2) Cerebral blood flow autoregulation in hypertension, in stroke, and during the aging process. (3) The Angiotensin system. (4) Angiotensin receptor subtypes. (5) Angiotensin receptors and actions of Angiotensin IT in the brain: interactions between the brain and circulating Angiotensin II. (6) The cerebrovascular Angiotensin II on cerebrovascular reactivity. (8) Angiotensin and cerebrovascular reactivity. (8) Angiotensin and cerebrovascular flow. (9) Effects of therapeutic modulation of the Angiotensin II system on cerebrovascular reactions between the brain and circulating Angiotensin II. (6) The cerebrovascular system. (7) Effects of therapeutic modulation of the brain and circulating Angiotensin II. (6) The cerebrovascular reactivity. (8) Angiotensin receptors subtypes. (5) Angiotensin receptors and actions of Angiotensin II in the brain: interactions between the brain and circulating Angiotensin II. (6) The cerebrovascular reactivity. (8) Angiotensin and cerebrovascular reactivity. (8) Angiotensin and cerebrovascular reactivity. (9) Effects of therapeutic modulation of the Angiotensin II system on cerebrovascular reactivity. (8) Angiotensin and cerebrovascular reactivity. (9) Effects of therapeutic modulation in health and disease.

 1407-47-2. Angiotensin 11128-99-7. Angiotensin-II. (8) Les (Biological activity or effector. except adverse): BPR (Biological study): PROC (Process)

 (angiotensin and cerebral blood flow in relation to health and disease)
- - (angiotensin and cerebral blood flow in relation to health and disease)

- L1 ANSWER 49 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1999:599521 Document No. 131:208400 Long-term potential of angiotensin receptor blockade for cardiovascular protection in hypertension: the VALUE trial. Julius. Stevo (Division of Hypertension. Department of Internal Medicine University of Michigan Medical School. Ann Arbor. MI. USA). Cardiology. 91(Suppl. 1). 8-13 (English) 1999. CODEN: CAGYAO. ISSN: 0008-6312. Publisher: S. Karger AG.
 A review with 47 refs. The recent decrease of cardiovascular mortality in the USA is less pronounced than it has been in the preceding three decades. Elsewhere. cardiovascular mortality decreased and in some countries it increased. Cerebrovascular disease and ischemic heart disease were responsible for 21% of deaths recorded by the World Health Organization in 1990 and 1997. of which hypertension was estd. to be directly responsible for half of these deaths. Apart from blood pressure (BP) elevation, essential hypertension is frequently assocd. with factors that increase the risk of poor cardiovascular outcomes: insulin resistance/dyslipidemia. elevated angiotensin and norepinephrine, a tendency for hypercoagulability, platelet overactivity, tachycardia. vulnerability to arrhythmias, vascular hypertrophy. Excess activation of the rentin-angiotensin system, independent of BP elevation. contributes to these abnormalities. To achieve better results in the future, focus must be shifted from BP lowering to recognition of specific effects of drugs on these diverse pathophysiol, aspects of hypertension. The Valsartan Antihypertensive Long-tem Use Evaluation (VALUE) trial, which is evaluating the effect of valsartan (Diovan) vs. amiodipine. Is a milestone in the effort to test whether never compos, offer a better redn. of the cardiovascular consequences of hypertension, as well as good BP control. The hypothesis is that valsartan by antagonizing the neg, effects of angiotensin on smooth muscle cell growth, endothelial function, sympathetic overactivity, and coagulation, may have for the same

 - ANSWER 51 OF 123 CAPLUS COPYRIGHT 2003 ACS
 7:565887 Document No. 130:104666 Protective effects of angiotensin
 11 receptor antagonists on damaged target organs. Hiwada. Kunio
 (Sch. Med. Ehime Univ.. Ehime. 791-02. Japan). Cardiac Practice. 10(1).
 25-29 (Japanese) 1999. CODEN: CARPEM. ISSN: 0915-874X. Publisher:
 Modifiaru Rehyuseha

 - 25-29 (Japanese) 1999. CODEN: CARPEM. ISSN: 0915-874X. Publisher: Medikaru Rebyusha. A review with 14 refs. on effects of antihypertensive angiotensin II receptor antagonists on left ventricular hypertrophy, heart failure, cerebrovascular diseases, and renal failure. Protective effects of angiotensin II receptor antagonists on damaged target organs A review with 14 refs. on effects of antihypertensive angiotensin II receptor antagonists on left ventricular hypertrophy, heart failure, cerebrovascular diseases, and renal failure. review angiotensin II receptor antagonists; antihypertensive angiotensin antagonist organ protection review Angiotensin receptor antagonists organs protection review angiotensin II: protective effects of angiotensin II receptor antagonists on damaged target organs)
- organs)
 Cytoprotective agents
 (cardioprotective: protective effects of angiotensin
 II receptor antagonists on damaged target organs)
 - Antihypertensives Brain, disease
 - (protective effects of angiotensin II receptor antagonists on damaged target organs)

10/031.398

L1 ANSWER 52 OF 123 CAPLUS COPYRIGHT 2003 ACS
1999:26515 Document No. 130:163577 AT1 receptors mediate angiotensin
11 uptake and transport by bovine brain microvessel endothelial
cells in primary culture. Rose. Jayna M.: Audus. Kenneth L. (Department
of Pharmaceutical Chemistry. The University of Kansas. School of Pharmacy
Lawrence. KS. USA). Journal of Cardiovascular Pharmacology. 33(1). 30:35
(English) 1999. CODEN: JCPCDT. ISSN: 0160-2446. Publisher: Lippincott
Milliams & Wilkins.
AB The endothelial lining of the blood-brain barrier tightly controls the
distribution of peptide hormones between the central nervous system and

Williams & Wilkins.
The endothelial lining of the blood-brain barrier tightly controls the distribution of peptide hormones between the central nervous system and the circulation. By using primary cultures of brain microvessel the circulation. By using primary cultures of brain microvessel endothelial cells. an in vitro model of the blood-brain barrier, the authors report the uptake and transport of the octapeptide angiotensin II by a specific receptor population. With the angiotensin II and appoints to losartan (AII specific) and PD 123.319 (AIZ specific), the authors showed that both the uptake and transport of angiotensin II were mediated by the ATI receptor. Western blot anal. confirmed the existence of the ATI receptor in the authors' cell-culture model. Rhodamine 123 studies also suggested that both angiotensin II antagonists. but not angiotensin II antagonists. but not angiotensin II antagonists of the P-glycoprotein efflux system, thus restricting the transport of these compds. These results suggest an ATI receptor mediates uptake and transport of angiotensin II at the blood-brain barrier and may contribute to the regulation of cerebrovascular levels of the peptide.

contribute to the regulation of cerebrovascular levels of the peptide.
All receptors mediate angiotensin II uptake and transport by bovine brain microvessel endothelial cells in primary culture . endothelial cells. an in vitro model of the blood-brain barrier. the authors report the uptake and transport of the octapeptide angiotensin II and appoints losartan (ATI specific) and PD 123,319 (ATZ specific), the authors showed that both the uptake and transport of angiotensin II were mediated by the ATI receptor. Western blot anal. confirmed the existence of the ATI receptor in the authors' cell-culture model. Rhodamine 123 studies also suggested that both angiotensin II antagonists. but not angiotensin II. were substrates for the P-glycoprotein efflux system. thus restricting the transport of these compds. These results suggest an ATI receptor mediates uptake and transport of angiotensin II at the blood-brain barrier and may contribute to the regulation of cerebrovascular levels of the peptide. peptide. AT1 receptor angiotensin II transport blood brain

Blood-brain barrier
(ATI receptors mediate angiotensin II uptake and
transport by bovine brain microvessel endothelial cells in primary

L1 ANSWER 53 OF 123 CAPLUS COPYRIGHT 2003 ACS
1998:793244 Document No. 130:33608 Reserpine-diuretic combination in the treatment of hypertension. A review. Siegmann. Martin: Kirch. Wilhelm treatment of hypertension. A review. Siegmann. Martin: Kirch. Wilhelm treatment of hypertension. Presden. Dresden. Dresd

combinations cost less than Ca antagonists. ACE inhibitors, and angiotensin II receptor antagonists.
. even low doses of reserpine lower blood pressure sufficiently.
Nasal constipation is the most frequently reported adverse event.
Cardiovascular and cerebrovascular morbidity and mortality are decreased by reserpine-diuretic combinations. Reserpine-diuretic combinations cost less than Ca antagonists. ACE inhibitors. and angiotensin II receptor antagonists.

Page 25

L1 ANSWER 52 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANSWER 52 On 123 Out-to Courter Culture)
Angiotensin receptors
RL: 80C (Biological occurrence): BPR (Biological process): BSU (Biological study): 00CU (Occurrence): PROC study, unclassified): BIOL (Biological study); 00CU (Occurrence): PROC (Process)
(ATL: ATI receptors mediate angiotensin II uptake and transport by bovine brain microvessel endothelial cells in primary outline)

IT Blood vessel
 (microvessel. endothelium: ATI receptors mediate angiotensin
 II uptake and transport by bowine brain microvessel endothelial
 cells in primary culture)
IT Biological transport
 (uptake: ATI receptors mediate angiotensin II
 uptake and transport by bowine brain microvessel endothelial cells in
 primary culture)
IT 11128-99-7. Angiotensin-II
 RL: BPR (Biological process): BSU (Biological study. unclassified): BIOL
 (Biological study): PROC (Process)
 (ATI receptors mediate angiotensin II uptake and
 transport by bowine brain microvessel endothelial cells in primary
 culture)

L1 ANSMER 54 OF 123 CAPLUS COPYRIGHT 2003 ACS
1998:788746 DOCUMENT NO. 130:52406 Substituted biphenyl isoxazole
sulfonamides useful as endothelin antagonists. Murugesan. Natesan:
Barrish. Joel C.: Spergel. Steven H. (Bristol-Myers Squibb Co.. USA).
U.S. US 5846990 A 19981208. 107 pp.. Cont.-in-part of U.S. Ser. No.
754.715. abandoned. (English). CODEN: USXXAM. APPLICATION: US
1997-799616 19970213. PRIORITY: US 1995-493331 19950724: US 1996-603975
19960220: US 1996-754715 19961121. GT

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I inhibit the activity of endothelin (no data), and are useful as antihypertensives, etc. The symbols in I are defined as follows fone of X and Y = N, other = 0: J = 0. S. N. (un)substituted NH; K. L = N or C. provided that at least one is C: p = 0-2: Rl-R4 (bound to ring C atoms) = H. (un)substituted alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, cycloalkylalkyl, cycloalkeyl alkyl, alkenyl, aryloxy, aralkyl, aralkoxy, halo. OH. cyano. NO2. CHO, etc.: or R3R4 = (un)substituted alkylene or alkenylene: R5-R8 = groups similar to R1-R4, plus alkylene or alkenylene: R5-R8 = groups similar to R1-R4, plus alkylene or alkenylene: R5-R8 = groups similar to R1-R4, plus alkylene or alkenylene: the MEM-protected. isoxazole-contg. bromide II [R = Br] was lithiated, treated with B(OPr-iso)3, and hydrolyzed to give R2K1 II [R = B(OH)2]. The latter was coupled with 2-(4-bromophenyl)oxazole using Pd(PPh3)4 catalyst (703). followed by acidic deprotection of the MEM group (52X). to give title compd. III.
Angiotensin receptor antagonists (angiotensin II. compns. addnl. contg.: prepn. of substituted biphenyl isoxazole sulfonamides as endothelin antagonists) (enlarges).

(subarachnoid hemorrhage, treatment; prepn. of substituted biphenyl isoxazole sulfonamides as endothelin antagonists)

- 1 ANSWER 55 OF 123 CAPLUS COPYRIGHT 2003 ACS
 998:726129 Document No. 130:90770 Responsiveness of human infant cerebral arteries to sympathetic nerve stimulation and vasoactive agents. Bevan. Rosemary: Dodge. John: Nichols, Patricia: Poseno. Tina: 'lijayakumaran. Edathoot: Wellman. Terry: Bevan. John A. (Totman Laboratory for Cerebrovascular Research. Department of Pharmacology. College of Medicine. University of Vermont. Burlington, VT. 05405, USA). Pediatric Research. 44(5). 730-739 (English) 1998. COUCEN: PEREBL. ISSN: 0031-3998.
 Publisher: Lippincott Williams & Wilkins.
 Responses of segments of basilar and middle cerebral arteries of eight human infants to activation of perivascular nerves and to vasoactive drugs were studied using a resistance artery myograph. The infants ages ranged from 23 wk of gestation to 34 postnatal days. Neurogenic vasoconstriction occurred in all segments and at 8 Hz was 12.7% of tissue max. and was blocked by phentolamine (10-6 M). There was no evidence of a neurogenic dilator response. Catecholamine histofluorescence was seen in nerves in the adventitia at all ages studied. Norepinephrine IDSO was 7.6. Limes. 10-7 M. and its max. effect was 43.1% of tissue max. Both neural and norepinephrine responses were greater than those of the proximal parts of adult human middle cerebral arteries obtained postmortem and surgically removed adult human pial arteries. Electron microscopy demonstrated that neural d. at the adventitionedial junction in the Infant vessels was greater than in the pial arteries. Constrictor responses to serotorin and prostaglandin F2.alpha. were minimal in the two infants of 23 and 24 wk of gestation but were clearly present in the older infants. Histamine and acetylcholine were potent vasodilators. Indomethacin potentiated agonist-induced contraction. In a limited no. of trials angiotensin II. neuropeptide Y. caused contraction and bradykinin, relaxation. It is concluded that there is a quant. similarity between the studied responses of infant cerebral artery segm

- 50-67-9. Serotonin. biological studies 51-41-2. Norepinephrine 51-45-6. Histamine. biological studies 51-84-3. Acetylcholine. biological studies 58-82-2. Bradykinin 551-11-1. PGF2.alpha.

ANSWER 56 OF 123 CAPLUS COPYRIGHT 2003 ACS 38:633223 Document No. 130:33051 The valsartan antihypertensive long-term use evaluation (VALUE) trial of cardiovascular events in hypertension. Rationale and design. Mann. Jessica: Julius, Stevo (Department of Internal Medicine, Division of Hypertension, University of Michigan Medical Center. Ann Arbor. MI. 48109-0356, USA). Blood Pressure. 7(3): 176-183 (English) 1998. COOEN: BLYREG. ISSN: 08003-7051. Publisher: Scandinavian University Press.
Essential hypertension is a major Public Health issue. Although the no. of treated hypertensive patients has increased, only 25x of treated patients have their blood pressure levels under control. The benefit of treating hypertension has been proven, but cardiovascular morbidity and mortality rates remain high. The ideal antihypertensive drug should not only normalize blood pressure levels. but also reduce the associ. cardiovascular morbidity and mortality rates. The role of angiotensin II in systemic hypertension and its complications has been recently redefined. The potent trophic effects of angiotensin II on blood vessels and on cardiac cells have been well demonstrated. esp. the role of angiotensin II in left ventricular hypertrophy, vascular hypertrophy, endothelial dysfunction, and congestive heart failure. Of all ongoing mortality and morbidity trials in systemic hypertension, VALUE (Valsartan Antihypertensive Long-term Use Evaluation) is the only one comparing an angiotensin II antagonist (Valsartan) with a third-generation calcium channel blocker (amlodipine). A review with 55 refs. The main hypothesis of the VALUE trial is that, for an equiv. decrease in blood pressure, valsartan will be more effective than amlodipine in decreasing cardiac mortality and morbidity. VALUE is a prospective, multinational, multicenter, double-blind, randomized, active-controlled, 2-am parallel group comparison with a response-dependent dose titrn. scheme. VALUE involves 14 400 patients in over 30 countries, who will be followed for 4 yr or

- L1 ANSWER 55 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) 11128-99-7. Angiotensin-II 82785-45-3. Neuropeptide
 - Y RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): BIOL (Biological study) (human infant cerebral artery responsiveness to sympathetic nerve stimulation and vasoactive agents)

ANSWER 56 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) II in left ventricular hypertrophy, vascular hypertrophy, endothelial dysfunction, and congestive heart failure. Of all ongoing mortality and morbidity trials in systemic hypertension. VALUE (Valsartan Antihypertensive Long-term Use Evaluation) is the only one comparing an angiotensin II antagonist (valsartan) with a third-generation calcium channel blocker (amlodipine). A review with 55 refs. The main hypothesis of the VALUE. ventricular hypertrophy. proteinuria. and high serum creatinine. Disease factors include documented history of myocardial infarction, peripheral vascular disease, stroke or transient ischemic attack, or the presence of left ventricular hypertrophy with strain on the ECG. A unique feature of VALUE is the assessment.

- ANSWER 57 OF 123 CAPLUS COPYRIGHT 2003 ACS

 8:323144 Document No. 129:12752 Treating Alzheimer's disease with folate.
 vitamin 812. organic nitrates. and ACE inhibitors or angiotensin
 II antagonists. Smith. Anthony David: Jobst. Kim Anthony
 (Bristol-Myers Squibb Co., USA). PCT Int. Appl. WO 9919690 Al 19980514.
 48 pp. DESIGNATED STATES: W. AL., AM. AT. AU. AZ. BB. BG, BR. BY. CA. CH.
 CR. CZ. DE. DK. EE. ES. FI. GB. GE. HU. IL. IS. JP. KE. KG. KP. KR. KZ.
 LK. LR. LS. LT. LU. LV. MD. MG, MK. MM. MM. MX. NO. NZ. PL. PT. RD. RU.
 SD. SE. SG. SI. SK. TJ. MT. RT. TU. AU. GL. UZ. VN. AM. AZ. BY. KG. KZ.
 MD. RU, TJ. TM: RW: AT. BE. BF. BJ. CF. CG. CH. CI. CM. DE. DK. ES. FI.
 FR. GA. GB. GR. IE. IT. LU. NC. ML. MR. NE. NL. PT. SE. SN. TD. TG.
 (English). CODEN: PIXXO2. APPLICATION: WO 1997-US20021 19971104.
 PRIORITY: US 1996-30642 19961106.
 A method is provided for treating occlusive vascular disease or
 Alzheimer's disease. wherein the patient has at least moderately educed blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately reduced blood levels of homocysteine and at least moderately hemocysteine and a hemocysteine and a least moderately hemocysteine and a hemocysteine a

Communation of two of more of the desired parameters of issease (cerebrovascular, occlusive: treating Alzheimer's disease with folate, vitamin Bl2. org. nitrates, and ACE inhibitors or angiotensin II antagonists)

- IT
- (degeneration; treating Alzheimer's disease with folate, vitamin B12. org. nitrates, and ACE inhibitors or angiotensin II antagonists) $\,$
- IT
- Mental disorder
 (dementia, multi-infarct; treating Alzheimer's disease with folate,
 vitamin Bl2, org. nitrates, and ACE inhibitors or angiotensin II antagonists)
 Mental disorder
- (dementia, vascular, Binswanger's disease; treating Alzheimer's disease with folde, vitamin BI2, org. nitrates, and ACE inhibitors or angiotensin II antagonists)
- (dementia, vascular; treating Alzheimer's disease with folate, vitamin B12. org. nitrates. and ACE inhibitors or angiotensin II antagonists) Mental disorder
- IT Brain
- ANSWER 57 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
 55-63-0. Nitroglycerin 58-05-9. Leucovorin 87-33-2. Isosorbide
 dinitrate 107-43-7. Betaine 134-35-0 135-16-0 2800-34-2.
 10-Formyltetrahydrofolate 3432-99-3 4033-27-6 8059-24-3. Vitamin b6
 10360-12-0 16051-77-7. Isosorbide mononitrate 62571-86-2. Captopril
 10360-12-0 15651-77-3. Enalapril 76547-98-3. Lisinopril 80303-42-8.
 Fentiapril 8441-61-8. Quinapril 86541-75-5. Benazepril 87333-19-5.
 18anipril 88048-97-6. Fosinopril 103775-10-6. Moexipril 14798-26-4.
 Losartan 138402-11-6. Irbesartan
 RI: BAC (Biological activity or effector, except adverse): BSU (Biological study): USES
 (USes)
 - (treating Alzheimer's disease with folate, vitamin B12, org. nitrates, and ACE inhibitors or **angiotensin II** antagonists)

- L1 ANSWER 57 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) (homocysteine in: treating Alzheimer's disease with folate, vitamin 812, org. nitrates, and ACE inhibitors or angiotensin II antagonists)
- Lery, Ulsease (intermittent claudication: treating Alzheimer's disease with folate. vitamin BlZ. org. nitrates, and ACE inhibitors or angiotensin II antagonists) IT Artery, disease
- IT Brain, disease (ischemia, transient: treating Alzheimer's disease with folate, vitamin BIZ, org, nitrates, and ACE inhibitors or <mark>angiotensin</mark> II antagonists)
- IT Brain, disease
 (ischemia: treating Alzheimer's disease with folate, vitamin Bl2, org.
 nitrates, and ACE inhibitors or angiotensin II
- antagonists) disorder
- Mental disorder (senile psychosis: treating Alzheimer's disease with folate. vitamin Bl2. org. nitrates, and ACE inhibitors or angiotensin II antagonists)
 Brain, disease (stroke: treating Alzheimer's disease with folate. vitamin Bl2. org. nitrates, and ACE inhibitors or angiotensin II antagonists)
- nitrates, and ACE inhibitors or angiotensin II
 antagonists)

 IT Alzheimer's disease
 (treating Alzheimer's disease with folate, vitamin B12, org. nitrates,
 and ACE inhibitors or angiotensin II antagonists)

 IT 6027-13-0, Homocysteine
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (antagonists; treating Alzheimer's disease with folate, vitamin B12,
 org. nitrates, and ACE inhibitors or angiotensin II
 antagonists)
- antagonists) antagorists)
 I 10102-43-9. Nitric oxide, biological studies
 RL: BSU (Biological study, unclassified): BIOL (Biological study)
 (donors: treating Alzheimer's disease with folate, vitamin BI2, org.
 nitrates, and ACE inhibitors or angiotensin II
- nitrates. and ACE inhibitors of Buggetains. In antagonists)
 9015-82-1 11128-99-7. Angiotensin II
 RL: BSU (Biological study. unclassified): BIOL (Biological study)
 (inhibitors: treating Alzheimer's disease with folate. vitamin B12.
 org. nitrates. and ACE inhibitors or angiotensin II
- antagonists)

 17 59-30-3. Folic acid, biological studies 68-19-9. Vitamin bl2
 RL: BRC (Biological activity or effector, except adverse): BOC (Biological occurrence): BSU (Biological study, unclassified): THU (Therapeutic use):
 BIU. (Biological study): OCCU (Occurrence): USES (Uses)
 (treating Alzheimer's disease with folate, vitamin B12. org. nitrates, and ACE inhibitors or angiotensin II antagonists)
- L1 ANSWER 58 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1998:121175 Document No. 128:269079 Constrictor responses of the rat basilar artery during diabetes mellitus. Mayhan. William G. (Department of Physiology and Biophysics, University of Nebraska Medical Center. Omaha. NE. 68198-4575. LASA). Brain Research. 783(2), 326-331 (English) 1998. CODEN: BRREAP. ISSN: 0006-8993. Publisher: Elsevier Science B.V..

 AB Diabetes mellitus produces abnormalities of the endothelium and impairs endothelium-dependent dilatation of large and small cerebral blood vessels. However, the effect of diabetes mellitus on cerebral vasoconstriction and the modulatory influence of nitric oxide on cerebral vasoconstriction and the modulatory influence of nitric oxide on cerebral vasoconstriction and the modulatory influence of nitric oxide on cerebral vasoconstriction and the modulatory influence of nitric oxide on cerebral vasoconstriction and the modulatory influence of nitric oxide on cerebral vasoconstriction artery. The diam. on constrictor responses of the basilar artery. A cranitormy was performed over the ventral medulla to expose the basilar artery. The diam. of the basilar artery was measured using intravital microscopy in nondiabetic and diabetic (3-4 mo after injection of streptozotocin: 50-60 mg/kg i.p.) rats in response to angiotensin II. arginine vasopressin. endothelin-1 and the thromboxane analog. U-46619. Topical application of angiotensin II (10 and 100 mM) produced only minimal changes in diam. of the basilar artery which were similar in nondiabetic and diabetic rats. Arginine vasopressin (0.1 and 1.0 mM). endothelin-1 (10 and 50 mM). and U-46619 (10 and 100 mM) produced marked dose-related constriction of the basilar artery which was similar in both nondiabetic and diabetic rats. Next. whether the synthesis/release of nitric oxide played a role in constriction of the basilar artery in response to the agonists was examd. L-NMMA (1.0 mm.M) did not alter constrictor responses of the basilar artery to in modiabetic and diabetic ra
 - pathogenesis of cerebrovascular abnormalities assocd. with diabetes mellitus.

 . using intravital microscopy in nondiabetic and diabetic (3-4 mo after injection of streptozotocin: 50-60 mg/kg i.p.) rats in response to angiotensin II. ardinine vasopressin. endothelin-1. and the thromboxane analog. U-46619. Topical application of angiotensin II (10 and 100 nM) produced only minimal changes in diam. of the basilar artery which were similar in nondiabetic and. . . diabetes mellitus. In addn. the synthesis/release of nitric oxide probably does not modulates constrictor responses of the basilar artery to angiotensin II. arginine vasopressin. endothelin-1 and U-46619. Preservation of vasoconstrictor responses. coupled with impaired vasodilator responses, may contribute to the pathogenesis of cerebrovascular abnormalities assocd. with diabetes mellitus.
 - diabetes mellitus. 113-79-1. Arginine vasopressin II 123626-67-5. Endothelin-1

- ANSWER 59 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) and calcitonin gene-related peptide assoc. with cerebral

intarction)
Diabetes mellitus
Hypertension
(plasma endothelin, aldosterone, renin-angiotensin system and
calcitionin gene-related peptide assoc, with cerebral
infarction)
2 01 Landstreamon 13129.00 7 Annietomorio II

infarction)
52-39-1. Aldosterone 11128-99-7. Angiotensin II
83652-28-2. Calcitonin gene related peptide 116243-73-3. Endothelin
RI: ADV (Adverse effect. including toxicity): BIOL (Biological Study)
(plasma endothelin, aldosterone, remin-angiotensin system and
calcitonin gene-related peptide assoc. with cerebral
infarction) infarction)

Page 28

L1 ANSWER 59 OF 123 CAPLUS COPYRIGHT 2003 ACS
1998:99809 Document No. 128:203768 Serial observation of plasma endothelin
RAS renin-angiotensin system and calcitonin gene-related peptide with
cerebral infarction. Zhou, Wu: Yu, Burun (Department of
Neurology, The Affiliated Tongji Mospital. Tongji Medical University,
Wuhar. 430030, Peop. Rep. China). Tongji Yike Daxue Xuebao. 26(3).
195-198 (Chinese) 1997. CODEN: TYDXEP. ISSN: 0258-2090. Publisher:
Tongrii Yike Daxue.

Neurology. The Affiliated Tongji Nospital. Tongji Medical University. Wuhan. 430030. Peop. Rep. China). Tongji Yike Daxue Xuebao. 26(3). 195-198 (Chinese) 1997. COORN: TYDKEP. ISSN: 2058-2090. Publisher: Tongji Yike Daxue. The relation of cerebral infarction (CI) and its complications with plasma endothelins (P-ET). angiotensin II (p-A II). aldosterone (P-ALD) and calcitonin gene-related peptide (CGRP) were studied. 40 Patients with CI were divided into 3 groups: cerebral infarction group, atherosclerosis group and normal controls. P-ET. P-A II. p-ALD and P-CGRP levels of CI patients were detd. on 3rd day. 10-14th days and 25-28th days after onset. also for atherosclerosis patients and normal controls. The P-ET. p-A II and P-ALD levels of CI patients in total process were higher than those of the normal controls. but the P- CGRP levels of CI patients in total process were higher than those of the normal controls. but the P-CGRP levels of CI patients in total process were higher than those without hypertension, but the P-CGRP levels were lower. The P-ET. P-A II levels of CI patients with diabetes were higher than those without hypertension, but the P-CGRP levels of GI patients with diabetes were higher than those without diabetes. The P-ET. P-A II had P-CGRP levels of GI patients with diabetes were higher than those without diabetes. The P-ET. P-A II nd P-CGRP levels of GI patients with diabetes were higher than those in light and moderate states. The results suggests that (1) cerebral infarction is correlated with P-ET. P-A II and P-CGRP. (3) diabetes. The P-ET. P-A II and P-CGRP levels of GI patients with diabetes and group and groups is cerebral infarction (CI) and its complications with plasma endothelin RAS renin-angiotensin system and calcitonin gene-related peptide with cerebral infarction for patients were detd. on 3rd. . . in serious state of the illness were higher than those in light and moderate states. The resu

Pr-CGRP. (3) endothelin angiotensin II aldosterone cerebral infarction; calcitonin gene related peptide cerebral infarction

Brain, disease (infarction: plasma endothelin, aldosterone, renin-angiotensin system

L1 ANSWER 60 OF 123 CAPLUS COPYRIGHT 2003 ACS 1998:98322 Document No. 128:167435 Preparation of heterocyclyl-substituted biphenylsulfonamide as endothelin antagonists. Murugesan. Natesan: Barrish, Joel C.: Stein. Philip D. (Bristol-Myers Squibb Company, USA). PCT Int. Appl. NO 9804260 Al 19980205. 85 pp. DESIGNATED STATES: W. AL. AM, AT. AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LY, MD, MG, KM, NM, MM, NN, NO, ZP, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TH, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW, AT, BE, BF, BJ, CF, CG, CH, CI, CH, MC, DK, SF, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, (English). CODEN: PIXXO2.

Compds of formula (I: R1 and R2 are directly bonded to a ring carbon and are each independently hydrogen, alkyl or alkoxy, hydroxyl, halo, or amino; one of X and Y is N and the other is O: R3 and R4 are each directly bonded to a ring carbon and are each independently hydrogen, alkyl, alknyl, alknyl, alkoxy, cycloalkyl, cycloalkylalkyl, cycloalkenyl alkyl, aryl, aryloxy, aralkyl or aralkoxy, any of which may be substituted or R3 and R4 together may also be alkylene or alkenylene, either of which may be substituted, completing a 4- to 8-membered satd. unsatd, or arom, ring together with the carbon atoms to which they are attached; R11 - R14 are each independently are hydrogen alkyl, alkenyl, alkoxyl, cycloalkyl, cycloalkylalkyl, cycloalkenyl, cycloalkenyl, cycloalkyl, aryloxy, aralkyl, aralkoxy, or heterocyclyl, any of which may be substituted, halo, OH, cyano, NOZ, CHO, COZH, etc.; J. K. L. T., and U are each independently are not cycloalkyl least one is N, and at most two are N; and when only one of J. K. L. T. and U is N, the

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L1 ANSWER 60 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

N may be substituted with 0- so that N-oxide is formed), which inhibit the activity of endothelin no data) are prepol. Also claimed is a method for treating endothelin-related disorders in a mammal, such as (1) hypertension, (2) pulmonary hypertension, (3) renal, glomerular, or mesangial cell disorders, (4) endotoxemia, (5) ischemia, (6) atherosclerosis, (7) restenosis, (8) subarachmoid hemorrhage. (9) prostatic hypertrophy, and (10) congestive heart failure, and a method for inhibiting cell growth. Said compd. I is used in combination with at least one angiotensin II receptor antagonist, renin inhibitor, ampiotensin converting enzyme (ACE) inhibitor or a dual neutral endopeptidase-ACE inhibitor for treating the endothelin-related disorders comprises said compd. optionally in combination with at least one angiotensin II receptor combination with at least one angiotensin II receptor antagonist, renin inhibitor, angiotensin converting enzyme (ACE) inhibitor, or a dual neutral endopeptidase-ACE inhibitor. Thus. 2-(4-bromopheny) pyrimidine is coupled with 2-borono-H-(3,4-dimethyl-5-isoxazolyl)-N-((2-methoxyethoxylmethyl) benzenesul fonamide in the presence of (Ph3P)4Pd in a mixt. of toluene. 2 M ac. Na2CO3, and 95% ethanol under reflux for 1.5 h to give the title compd. N-isoxazolylpyrimidinylbiphenyl sulfonamide (11).

AB . hypertension. (2) pulmonary hypertension, (3) renal, glomerular.
```

reflux for 1.5 h to give the title compd. N-isoxazolylpyrimidinylbiphenyl sulfonamide (II).

. hypertension. (2) pulmonary hypertension. (3) renal. glomerular. or mesangial cell disorders. (4) endotoxemia. (5) ischemia. (6) atherosclerosis. (7) restenosis. (8) subarachnold hemorrhage. (9) prostatic hypertrophy. and (10) congestive heart failure, and a method for inhibiting cell growth. Said compd. I is used in combination with at least one angiotensin II receptor antagonist. renin inhibitor, angiotensin converting enzyme (ACE) inhibitor. or a dual neutral endopeptidase-ACE inhibitor for treating the endothelin-related disorders. A pharmaceutical compn. for the treating the endothelin-related disorders comprises said compd. optionally in combination with at least one angiotensin II receptor antagonist. renin inhibitor, angiotensin converting enzyme (ACE) inhibitor. or a dual neutral endopeptidase-ACE inhibitor. Thus. 2:(4-bromophenyl)pyrimidine is coupled with.

. disorder treatment isoxazolylbiphenylsulfonamide: mesangial cell disorder treatment isoxazolylbiphenylsulfonamide: ischemia treatment isoxazolylbiphenylsulfonamide: restenosis treatment isoxazolylbiphenylsulfonamide: restenosis treatment isoxazolylbiphenylsulfonamide: restenosis treatment isoxazolylbiphenylsulfonamide: endotoxemia treatment isoxazolylbiphenylsulfonamide: entenosclerosis treatment isoxazolylbiphenylsulfonamide: prostatic hypertrophy treatment isoxazolylbiphenylsulfonamide: congestive heart failure treatment isoxazolylbiphenylsulfonamide: congestive heart failure treatment isoxazolylbiphenylsulfonamide: cell growth inhibitor isoxazolylbiphenylsulfonamide
Angiotensin receptor antagonists
(angiotensin II: prepn. of heterocyclyl-substituted

ANSWER 61 OF 123 CAPLUS COPYRIGHT 2003 ACS
8:91962 Document No. 128:213005 Mineralocorticoid blockade reduces
vascular injury in stroke-prone hypertensive rats. Rocha. Ricardo:
Chander. Praveen N.: Khanna. Kavita: Zuckerman. Andrea: Stire: Charles T.
Jr. (Dept. of Pharmacology. New York Medical College. Valhalla. NY. 10595.
USA). Hypertension. 31(1. Pt. 2). 451-458 (English) 1998. CODEN: HPRIDN.
ISSN: 0194-911X. Publisher: Williams & Wilkins.
Chronic treatment of saline-drinking stroke-prone spontaneously
hypertensive rats (SHRSP) with agents that interfere with the formation or
actions of angiotensin II prevents the development of
stroke and renal vascular danage. Angiotensin II. in
addn. to its direct vascular effects. stimulates the synthesis and release
of aldosterone. To assess the role of aldosterone in the development of
pathol. changes in these rats. time-release pellets contg. 200 mg of the
mineralocorticoid receptor antagonist. spironolactone, were implanted into
14 SHRSP at 7.5 wk of age. Over the period of study (3-4 wk), systolic
blood pressure was not different between implanted and control groups.
Spironolactone did not enhance water and electrolyte excretion. All
placebo-treated SHRSP, urinary protein excretion (UPC) averaged
39 mg/day. In a 2nd study to assess effects on survival. 6 SHRSP received
spironolactone-treated SHRSP remained asymptomatic through 19 wk of age.
At 16 wk of age. spironolactone-treated SHRSP were severely hypertensive
(247 mm Hg). yet UPC remained a baseline levels. In contrast.
preterminal UPE averaged 136 mg/day in control rats. In both studies,
histopathol. exam. revealed a marked protective effect of spironolactone
against the developpement of malignant nephrosclerotic and
cerebrovascular lesions. These observations indicate a vascular
and end-organ protective effect of spironolactone
in the absence of
lowered blood pressure in saline-drinking SHRSP and are consistent with a
major role for mineralocorticoids as hormonal mediators of vascular
injury.
Chronic treatment

injury.

Injury.

Chornic treatment of saline-drinking stroke-prone spontaneously hypertensive rats (SHRSP) with agents that interfere with the formation or actions of angiotensin II prevents the development of stroke and renal vascular damage. Angiotensin II. in addn. to its direct vascular effects. stimulates the synthesis and release of aldosterone. To assess the role of aldosterone. rats. In both studies, histopathol, exam. revealed a marked protective effect of spironolactone against the development of malignant nephroscleroric and cerebrovascular lesions. These observations indicate a vascular and end-organ protective effect of spironolactone in the absence of lowered blood pressure in.

L1 ANSWER 60 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) biphenylsulfonamide as endothelin antagonists for treating endothelin-related disorders)

inges (subarachnoid hemorrhage: prepn. of heterocyclyl-substituted biphenylsulfonamide as endothelin antagonists for treating endothelin-related disorders)

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ANSWER 62 OF 123 CAPLUS COPYRIGHT 2003 ACS
77.684304 Document No. 127:351205 Pharmaceutical compositions containing angiotensin II antagonists and additional agents for treatment of angiotensin II-mediated diseases.

Tamura Norikazu: Sohda. Takashi: Ikeda. Hitoshi (Takeda Chemical Industries. Ltd., Japan: Tamura, Norikazu: Sohda. Takashi: Ikeda. Hitoshi). PCT Int. Appl. W0 9737688 AZ 19971016. 61 pp. DESIGNATED STATES: W. AL, AM, AU, AZ, BA, BB, BB, BR, BY, CA, CN, CU, CZ, EE, GE, GH, HU, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, HX, NO, XZ, PL, RD, RU, SG, SK, TJ, TM, TR, TT, UA, US, UZ, VW, VU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, BM; AT, BE, BF, BJ, CF, CG, CH, CL, CM, GE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NC, NL, PT, SE, SN, TD, TG, (English). CODEN: PIXXO2. APPLICATION: W0 1997-JP1149 19970403. PRIORITY: JD 1996-83917 19960405.

To provide a pharmaceutical compn. which performs a remarkable effect with a relatively decreased dosage and with less side effects, a pharmaceutical compn. was formulated by combination of an angiotensin II-mediated compd. or a salt thereof with at least one species of a compd. having the activity of improving postprandial hyperglycemia in diabetes mellitus, an indane deriv. having the activity of inhibiting hMG-Co A reductase or salts thereof. A capsule for treatment of arteriosclerosis was formulated contq. 2-ethoxy-I-[[22-(II-Hetrazol-5-y)]bipthenyl-4-yl]-methyl]-lif-benzinidazole-7-carboxylic acid 1. 5-[4-[-2-(5-ethyl-2-pyridyl)ethoxy]benzyl]-2-4-thiazolidinedione 30. lactose 69, microcryst. cellulose 70, and Mg stearate 10 mg. Pharmaceutical compositions containing angiotensin II antagonists and additional agents for treatment of angiotensin II-mediated diseases . . . effect with a relatively decreased dosage and with less side effects, a pharmaceutical compo. was formulated by combination of an angiotensin II-mediated compd. or a salt thereof with at least one species of a compd. having the activity of increasing insulin sensitivity.
                               Heart. disease
(angina pectoris: pharmaceutical compms. contg. angiotensin
II antagonists and addml. agents for treatment of
angiotensin II-mediated diseases)
Angiotensin receptor antagonists
(angiotensin II: pharmaceutical compms. contg.
angiotensin II antagonists and addml. agents for
treatment of angiotensin II-mediated diseases)
                                               treatment of angiotensin II-mediated diseases)
Orug delivery systems
(capsules: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
Schizophorus
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nizopnrenia (catatonia: pharmaceutical compns. contg. angiotensin II antagonists and addnl. agents for treatment of angiotensin II-mediated diseases)

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L1 ANSWER 62 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
(central, disease: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
                 Brain, disease
(cerebrovascular; pharmaceutical compns. contg.
angiotensin II antagonists and addnl. agents for
treatment of angiotensin II-mediated diseases)
                             (coronary, angioplasty, obstruction after: pharmaceutical compns. contg. angiotensin II antagonists and addnl. agents for treatment of angiotensin II-mediated diseases)
                   Artery
   ΙT
                Artery
                   Artery
                             (coronary, bypass surgery, vascular reobstruction after; pharmaceutical compns. contg. angiotensin II antagonists and addn], agents for treatment of angiotensin II
               addn! agents for treatment of anytotensmile in mediated diseases)

Mental disorder (depression: pharmaceutical compns. contg. angiotensin II antagonists and addn!. agents for treatment of angiotensin II-mediated diseases)
               Kidney, disease
                              diabetic nephropathy; pharmaceutical compns. contg.
angiotensin II antagonists and addnl. agents for
treatment of angiotensin II-mediated diseases)
                    Heart, disease
                     Kidney, disease
Organ, animal
                     Organ, animal
                               (failure: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
     IT Kidney, disease
(glomerulonephritis; pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
     angiotensin II-mediated diseases)

IT Kidney. disease
(glomerulosclerosis: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)

IT Lipids. biological studies
Rl. ADV (Adverse effect. including toxicity): BIOL (Biological study)
(hyperlipidemia: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)

IT Blood vessel. disease
                        ANSWER 62 OF 123 CAPLUS COPYRIGHT 2003 ACS (Con
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
                                                                                                                                                                                        (Continued)
        L1
                         Mental disorder
(senile psychosis; pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
                     II antagonists and addnl. agents for treatment of angiotensin II-mediated diseases)
Drug delivery systems
(tablets: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of angiotensin II-mediated diseases)
9015-82-1. Angiotensin-converting enzyme 9028-35-7. HMG-CoA reductase RL: BSU (Biological Study) unclassified): BIO. (Biological Study)
(inhibitor: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of angiotensin II-mediated diseases)
83435-66-9 83408-29-9 III025-46-8 139481-59-7 145040-37-5
145599-86-6 147403-03-0 176510-08-7
RL: BBC (Biological activity or effector, except adverse): BSU (Biological study): USES (Uses)
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(Uses)
(pharmaceutical compns. contg. angiotensin II antagonists and addnl. agents for treatment of angiotensin II:mediated diseases)
III28-99-7. Angiotensin II
RL: BSU (Biological study. unclassified): BIOL (Biological study) (pharmaceutical compns. contg. angiotensin II antagonists and addnl. agents for treatment of angiotensin II-mediated diseases)

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L1 ANSWER 62 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued: (hypertrophy: pharmaceutical compns. contg. angiotensin II antagonists and addnl. agents for treatment of angiotensin II-mediated diseases)
             angiotensin II-mediated diseases)
Heart. disease
(infarction: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
Drug delivery systems
(injections: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
Vein
   IT
                          in
(insufficiency; pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
    IT Heart, disease
                           (Ischemia: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
   IT Kidney, disease
(nephritis; pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
                  Mental disorder
                  Mental disorder
(neurosis: pharmaceutical compns. contg. angiotensin
II antagonists and addnl. agents for treatment of
angiotensin II-mediated diseases)
Aldosteronism
Alzheimer's disease
                     Amnesia
                     Aneurysm
Antiarteriosclerotics
                     Anticoaqulants
                     Antidiabetic agents
Antihypertensives
Anxiolytics
                     Glaucoma (disease)
                  Glaucoma (disease)
Ischemia (pharmaceutical compns. contg. angiotensin II antagonists and addm). agents for treatment of angiotensin II-mediated diseases)
Memory, biological (retention defect: pharmaceutical compns. contg. angiotensin II antagonists and addm). agents for treatment of angiotensin II-mediated diseases)
Connective tissue
      IT Connective tissue
(scleroderma: pharmaceutical compns. contg. angiotensin
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L1 ANSWER 63 OF 123 CAPLUS COPYRIGHT 2003 ACS

1997:568440 Document No. 127:229432 Preventive effect of iganidipine on renal and cerebral injuries in salt-induced hypertension. Shirahase. Hiroaki: Wada. Katsuo: Uehara. Yoshio: Nakamura. Shohei: Chrikawa. Atsuko (Research Laboratories. Kyoto Pharmaceutical Industries. Ltd., Kyoto, 604, Japan). American Journal of Hypertension. 10(8). 899-878 (English) 1997. COOCN: ALHYEG. ISSN: 0985-7061. Publisher: Elsevier.

AB Iganidipine. a new water-sol. calcium antagonist, was aministered at nonhypotensive dose (NHD) of 0.3 mg/kg/day, and a sustained-hypotensive dose (SHD) of 1.0 mg/kg/day and a sustained-hypotensive dose (SHD) of 3.0 mg/kg/day to Dahl salt-sensitive (Dahl-S) rats fed a high-salt diet for 8 wk. The effects on survival. and on renal and cerebral injuries, were then examd. Iganidipine completely prevented hypertensive death at the SHD and tended to increase the survival at the NHD and HHD. Iganidipine reduced glomerulosclerosis and renal arterial and tubular injuries in a dose-dependent manner. Iganidipine at the SHD. but not NHD or HHD. improved plasma creatinine, serum urea nitrogen, and glomerular filtration rate. Iganidipine at all doses examd. increased the urinary prostaglandin (RG) 12 and PGE2, but not PGF2.alpha. or thromboxane B2, and decreased plasma angiotensin II (All) level and renin activity. The renal glomerular, tubular, and arterial injuries were significantly correlated with blood pressure (r = 0.56 to 0.80) and plasma AII level (r = 0.50 to 0.71) but not with urinary prostaponids. Iganidipine also reduced the incidence of cerebral infrarction. The infrarction area was slightly and significantly correlated with urinary PGI2 (r = 0.42) and PGE2 (r = 0.41) but not with blood pressure or plasma AII. In conclusion, iganidipine prevented renal and cerebral injuries in Dahl-S rats. In addn. to the reduced blood pressure. the reduced blood pressure of plasma AII. In conclusion, iganidipine also reduced the incidence of cerebral infrarction. The in

Autisative of heribourne. Austin, Australia, Drugs & Aging, 10(6). 421-434 (English) 1997. COOR: DRAGEG. ISSN: 1170-229X. Publisher: Adis.

A review with 65 refs. Raised blood pressure in the elderly is not a normal consequences of aging, but is a major risk factor for cardiovascular disease. Cardiac and cerebrovascular disease account for >50% of deaths among people aged >56 yr. Because the percentage of elderly people in most populations is rising, blood pressure control in this group is becoming increasingly important. Several large intervention studies in the elderly have demonstrated that antihypertensive medication reduces cardiovascular morbidity and mortality. In addn. the abs. benefits of blood pressure redn. are higher in elderly compared with younger patients. ACE inhibitors are effective and well tolerated in the treatment of hypertension in the elderly. Their success led to interest in alternative ways of blocking the renin angiotensin system, and the subsequent development of angiotensin II (AII) receptor antagonists. Losartan was the first drug in this class to become com. available. Since then, valsartan has been launched in some markets and others are likely to be launched in the near future. Losartan is effective in the treatment of essential hypertension and has a low incidence of adverse effects. First-dose hypotension is very uncommon and, at the present time, cough does not appear to be an adverse effect of these drugs, although long term tolerability studies are needed to confirm this. Angioedema, a rare but life-threatening adverse effect of ACE inhibitors, has also been assocd, with losartan. Current data suggest that AII receptor antagonists are likely to be used in hypertensive patients. Although further data are needed to confirm these findings. At present.

ANI receptor antagonists are likely to be used in hypertensive patients. Although this may change with the availability of long term tolerability and clin, outcomes data. Angiotensin II receptor antagonists are likely to be used

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L1 ANSWER 64 OF 123 CAPLUS COPYRIGHT 2003 ACS 1997:557640 DOCUMENT NO. 127:248103 Substituted biphenyl isoxazole sulfonamides useful as endothelin antagonists. Murugesan. Natesan: Barrish. Joel C.; Spergel. Steven H. (Bristol-Myers Squibb Company. USA). PCT Int. Appl. W0 9729748 Al 19970821. 325 pp. DESIGNATED STATES: W: AL. AM. AT. AU. AZ. BB. BG. BR. BY. CA. CH. CN. CZ. DE. DK. EE. ES. FI. GB. GE. HU. IL. IS. JP. KE. KG. KP. KR. KZ. LK. LR. LS. LT. LU. LV. MO. MG. KK. NH. NM. MK. NO. NZ. PL. PT. RO. RU. SO. SE. SG. SI. SK. TJ. TM. TR. TT. UA. UG. UZ. VN. AM. AZ. BY. KG. KZ. ND. RU. TJ. TM: RW: AT. BE. BF. BJ. CF. GG. CH. CI. CM. DE. DK. ES. FI. FR. GA. GB. GR. IE. IT. LU. MC. ML. MR. NE. NL. PT. SE. SN. TD. TG. (English). CODEN: PIXXOZ. APPLICATION: W0 1997-US3956 19970220. PRIDRITY: US 1996-603975 19960220: US 1996-754715 19961121: US 1997-799616 19970213.

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

*SINUCIURE DIAGRAM IOU LANGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I inhibit the activity of endothelin (no data), and are useful as antihypertensives, etc. The symbols in I are defined as follows [one of X and Y = N. other = 0: J = 0, S. N. (un)substituted MH; K. L = N or C. provided that at least one is C: p = 0.2: R1-R4 (bound to ring C atoms) = H. (un)substituted alkyl, alkenyl, alkynyl, alkoxy, cycloalkeyl), cycloalkeyl, cycloalkeylalkyl, aryl, aryloxy, aralkyl, aralkoxy, halo. OH, cyano, NOZ. CHO. etc.: or R3R4 = (un)substituted alkylene or alkenylene: R5-R8 = groups similar to R1-R4, plus heterocyclyl, heterocyclyloxy, and others]. Over 280 synthetic examples are given. For instance, the MEM-protected, isoxazole-contg, bromide II [R = BT] was lithiated, treated with B(OPT-iso)3, and hydrolyzed to give 82% II (R = B(OM)2]. The latter was coupled with 2:(4-bromophenyl)oxazole using Pd(PPN3)4 catalyst (70%), followed by acidic deprotection of the MEM group (52%), to give title compol. III.

Angiotensin receptor antagonists (angiotensin II, compns. addnl. contg.: prepn. of substituted biphenyl isoxazole sulfonamides as endothelin antagonists)

ninges (subarachnoid hemorrhage, treatment; prepn. of substituted biphenyl isoxazole sulfonamides as endothelin antagonists)

L1 ANSWER 65 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

Hypertension
(angiotensin II receptor antagonists for elderly patients with cardiovascular disease)

patients with cardiovascular Angiotensin receptor antagonists (angiotensin II; angiotensin II receptor antagonists for elderly patients with cardiovascular disease)

IT Aging, animal (elderly; angiotensin II receptor antagonists for elderly patients with cardiovascular disease)

L1 AKSHER 66 OF 123 CAPLUS COPYRIGHT 2003 ACS
1997:405439 Document No. 127:39817 Pharmaceutical compositions containing
imidazopyridines as angiotensin II antagonists.
Sekine. Yasuo: Kawanishi. Eiki: Narita. Hiroshi: Hashimoto. Yoshihiro:
Mizobe. Masakazu (Tanabe Seryaku Co. Ltd., Japan). Jpn. Kokai Tokkyo
Koho JP 09110691 A2 19970428 Heisei. 7 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1995-267560 19951017.

Pharmaceutical compns.. useful for treatment and/or prevention of hypertension. nephritis. diabetic nephritis. primary aldosteronemia. atherosclerosis. dementia. cerebral circulation disorder. chronic heart failure. and angina pectoris. contain imidazopyridines [(R]. R3, R4 = lower alkyl; R2 = lower alkanoyl; R34 may form C3-6 alkylene) or their pharmacol. acceptable salts as active ingredients. I are easily absorbed by digestive tract and converted into active forms. I (R1 = Pr. R2 = Ac. R3 = R4 = Et) HCl salt (II) at 0.3 mg/kg i.d. suppressed 61.6% angiotensin II-induced hypertension in dogs. LD50 of II was >1800 mg/kg p.o. in rats. Pharmaceutical compositions containing imidazopyridines as angiotensin II antagonists.

. (R1 = Pr. R2 = Ac. R3 = R4 = Et) HCl salt (II) at 0.3 mg/kg i.d. suppressed 61.6% angiotensin II-induced hypertension in dogs. LD50 of II was >1800 mg/kg p.o. in rats. antihypertensive imidazopyridine angiotensin II antagonist

ST antagonist

antiagonist
Antiatheriosclerotics
(antiatherosclerotics; prepn. of imidazopyridines as
angiotensin II antagonists for treatment of

angiotensia diseases)
Brain. disease
(cerebrovascular: prepn. of imidazopyridines as
angiotensin II antagonists for treatment of cardiovascular diseases)

Mental disorder

(dementia: prepn. of imidazopyridines as **angiotensin** II antagonists for treatment of cardiovascular diseases)

L1 ANSWER 66 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

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ANSWER 66 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) (diabetic nephropathy: prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases) Kidney, disease Heart, disease (failure, chronic; prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases) Kidney, disease (nephritis: prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases) Antianginal agents Antihypertensives
(prepn. of imidazopyridines as angiotensin II
antagonists for treatment of cardiovascular diseases)
52-39-1, Aldosterone
RL: BSU (Biological study. unclassified): BJOL (Biological study)
(metab. disorder: prepn. of imidazopyridines as angiotensin
II antagonists for treatment of cardiovascular diseases)
196062-73-4P II antagonists for treatment of cardiovascular diseases)
190602-73-4P
RI: ADV (Adverse effect. including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PNU
(Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases)
173307-01-2P 173307-02-3P 190602-72-3P
RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases)
11128-99-7. Angiotensin II
RI: BSU (Biological study), unclassified); BIOL (Biological study)
(prepn. of imidazopyridines as angiotensin II antagonists for treatment of cardiovascular diseases)
35180-01-9P 40510-86-9P 166813-55-4P 173307-04-5P 173307-05-6P 173307-07-9P 176310-42-2P 190602-74-5P 190602-75-6P 173307-07-9P 176310-42-2P 190602-74-5P 190602-74-5P 190602-74-5P 190602-74-5P 190602-74-5P 190602-74-5P 190602-74-5

RL: PMU (Preparation, unclassified): Rci (Reactain): No. Reci (Reactain): Rci (Reactain): Rci

ANSWER 67 OF 123 CAPLUS COPYRIGHT 2003 ACS
17:384287 Document No. 127:1228 Angiotensin IV and analogs as regulators of fibrinolysis. Vaughan. Douglas E.: Harding. Joseph W. (Brigham and Momen's Hospital. USA: Mashington State University Research Foundation). PCT Int. Appl. NO 9716201 Al 19970509. 64 pp. DESIGNATED STATES: NV. AU. CA. JP: RN: AT. BE. CH. DE. DK. ES. Fl. RR. GB. GR. IE. IT. LU, MC. NL. PT. SE. (English). CODEN: PIXXO2. APPLICATION: WO 1996-US13804 19960827. PRIORITY: US 1995-550174 19951030.
Angiotensin IV (VAL-TVR-ILE-HIS-PRO-PHE). a degrdn. product of angiotensin II previously thought to be inactive. interacts directly with endothelial cells to induce expression of PAI-1 and thereby to inhibit clot lysis attributable to endogenous t-PA. Moreover. angiotensin IV does not effect substantial physiol, changes (vasconstriction. increased blood pressure. etc.) Characteristic of angiotensin II. Fibrinolysis is promoted by reducing the amt. or the effect of angiotensin IV. Fibrinolysis is inhibited by providing enhanced angiotensin IV. Methods of screening candidates for antagonizing angiotensin IV are also disclosed. Angiotensin IV (NE-TVR-ILE-HIS-PRO-PHE), a degrdn. product of angiotensin IV (NE-TVR-ILE-HIS-PRO-PHE), a degrdn. product of angiotensin IV (Nethods of screening candidates for antagonizing angiotensin IV does not effect substantial physiol, changes (vasconstriction. increased blood pressure. etc.) Characteristic of angiotensin IV. fibrinolysis is inhibited by providing enhanced angiotensin. IV and analogs as promoters or cerebrovascular: angiotensin IV and analogs as promoters or

Brain. disease
(cerebrovascular: angiotensin IV and analogs as promoters or
inhibitors of fibrinolysis in a variety of medical conditions)
11128-99-7. Angiotensin II
RL: BPR (Biological process): BSU (Biological study. unclassified): BIOL
(Biological study): PROC (Process)
(use of compds. that inhibit the conversion of angiotensin
II to angiotensin IV as promoters of fibrinolysis)

L1 ANSWER 68 OF 123 CAPLUS COPYRIGHT 2003 ACS
1996:750082 Document No. 126:26599 Effects of losartan on cerebral arteries in stroke-prone spontaneously hypertensive rats. Vacher. Elisabeth: Richer, Christine: Giudicelli, Jean-Francois (Department de Pharmacologie, Faculte de Medecine. Le Kremlin Bicetre, 4976. Fr.). Journal of Hypertension, 14(11). 1341-1348 (English) 1996. CODEN: JOHYD3. ISSN: 0263-6352. Publisher: Rapid Science Publishers.

The objective of this study was to investigate in young salt-loaded stroke-prone spontaneously hypertensive rats (SPR-SP) the effects of a long-term administration of the angiotensin II ATI receptor antagonist losartan [1 mg/kg (L1) and 10 mg/kg (L10) per day at 5-20 wk of age) on the structural and functional characteristics of the middle cerebral artery. Morphol: measurements and isometric tension recordings (myograph. contractile responses to KCl and serotonin, and relaxant responses to bradykinin and sodium nitroprusside) were performed on isolated vessels from randomly selected control and losartan-treated SPR-SP and age-matched Wistar-Kyoto (WKr) rats killed at ages 6-7. 10-11, and 16-17 wk. Whereas all control SPR-SP had died within 18 wk of being born, losartan at both doses afforded full protection against stroke and mortality. Losartan limited malignant hypertension development dose-dependently. Age-related increases in cerebral arterial wall thickness and wall-lumen ratio were not affected (L1) or limited slightly (L10) by losartan. In control SPR-SP, contractile responses of cerebral arteries to agonists decreased with aging and stroke occurrence and were significantly smaller than those of age-matched WKr rat arteries. Losartan limited the cerebrovascular contractility impairment dose-dependently in SPR-SP but did not affect the WKr rat cerebral artery contractility. In addn., losartan limited the age-related alteration of the endothelium-dependent relaxation of cerebral arteries obsd. in control SPR-SP, losartan prevented stroke and improved the cerebral arte

functions, which are altered during aging and impaired even more dramatically by stroke occurrence.

. study was to investigate in young salt-loaded stroke-prone spontaneously hypertensive rats (SHR-SP) the effects of a long-term administration of the angiotensin II ATI receptor antagonist losartan [1 mg/kg (I1) and 10 mg/kg (I10) per day at 5-20 wk of age] on the . decreased with aging and stroke occurrence and were significantly smaller than those of age-matched WKY rat arteries. Losartan limited the cerebrovascular contractility impairment. dose-dependently in SHR-SP but did not affect the WKY rat cerebral artery contractility. In addn. losartan limited the.

L1 ANSWER 70 OF 123 CAPLUS COPYRIGHT 2003 ACS 1996:282552 Document No. 124:332358 Protective

ANSWER 70 OF 123 CAPLUS COPYRIGHT 2003 ACS 6:282552 Document No. 124:332358 Protective effects of ME3221 on hypertensive complications and lifespan in salt-loaded stroke-prome spontaneously hypertensive rats. Nagura. Jun: Yanamoto. Mikio: Hui. Chen: Yasuda. Sumie: Hachisu. Mitsugu: Konno. Fukio (Pharmaceutical Res. Center. Meiji Seika Kaisha Ltd.. Yokohama. Japan). Clinical and Experimental Pharmacology and Physiology. 23(3). 229-235 (English) 1996. CODEN: CEXP89. ISSN: 0305-1870. Publisher: Blackwell.
A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made on the protective effects of the following: ME3221. A comparison was made protein an experimental protein and prot

(ME3221) and.

(MESZELT DML.)
Receptors
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(angiotensin II ATI, protective effects of ME3Z21,
losartan, and enalapril on hypertensive complications and lifespan in
salt-loaded stroke-prone spontaneously hypertensive rats)

- ANSWER 69 OF 123 CAPLUS COPYRIGHT 2003 ACS 26:319527 Document No. 125:25882 ME3221, a surmountable angiotensin AT1-receptor antagonist, prevents hypertensive complications in aged stroke-prone spontaneously hypertensive rats. Nagura, Jun; Hui, Chen: Yamanoto, Mikio: Yasuda, Sumie: Abe, Mitsuhiro; Hachisu, Mitsugu; Konno, Fukio (Pharmaceutical Res. Center, Neiji Seika Kaisha, Ltd., Yokohama. 222, Japan), Japanese Journal of Pharmacology, 71(1), 39-49 (English) 1996. CODEN: JJPAAZ. ISSN: 0021-5198. Publisher: Japanese
- 222. Japan). Japanese Journal of Pharmacology. 71(1). 39-49 (English) 1996. CODEN: JUPAR2. ISSN: 0021-5198. Publisher: Japanese Pharmacological Society.
 The protective effects of ME3221. 3-methoxy-2.6-dimethyl-4-[[2'-(lH-tetra2ol-5-yi)-1.1'-biphenyl-4-yl]methoxy]pyridine. on aged (32-wk-old) stroke-prone spontaneously hypertensive rats (SHRSP) were studied following long-term (for 8 mo) oral administration. At a dose of 10 mg/ky/day. ME3221 suppressed the mortality and the hypertensive complications obsd. in control SHRSP: cerebral apoplexy (chemorrhage, and spongeform and malacia in the cerebral cortex). increased proteinuria. and total N-acetyl-.beta.-D-glucosaminidase activity, and cardiac hypertrophy and pleural effusion. The protective activity of ME3221. asummountable angiotensin ATI-receptor antagonist, was comparable to losartan, an insurmountable ATI-antagonist, and also to enalapril, an angiotensin-converting enzyme inhibitor. In addn. ME3221 reduced the systolic blood pressure more effectively than the two ref. drugs.

 . . oral administration. At a dose of 10 mg/kg/day. ME3221 suppressed the mortality and the hypertensive complications obsd. in control SHRSP: cerebral apoplexy (hemorrhage, and spongeform and malacia in the cerebral cortex). increased proteinuria, and total N-acetyl-.beta.-D-glucosaminidase activity, and cardiac hypertrophy and pleural.

and pleural. .

Receptors
RL: BSU (Biological study. unclassified); BIOL (Biological study)
(angiotensin II AT1. ME3221. an angiotensin
All-receptor antagonist. prevents hypertensive complications in aged stroke-prone spontaneously hypertensive rats)

- 11 ANSWER 71 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1996:32028 Document No. 124:77283 The role of angiotensin receptor subtypes in cerebrovascular regulation in the rat. Naeveri, Litisa (Institute of Biomedicine, University of Heisinki, Heisinki, Finland). Acta Physiologica Scandinavica. Supplementum. 155(630). 48pp (English) 1995. COCEN: APSSAD. ISSN: 0302-2994. Publisher: Blackwell.

 The present studies were conducted to examine the roles of angiotensin II, angiotensin IV, and the angiotensin. The effects of angiotensin Bl. the selective ATI receptor antagonist. Iosartan. and adversesses in blood pressure in normotensive rats. Cerebrocortical blood flow was measured by laser-Doppler flowmetry. While systemic blood pressure was either increased by perhyphrine infusion, or decreased by controlled hemorrhage. The effects of angiotensin II, and ATI and ATI and ATI receptor ligands on the contractility of rat anterior cerebral artery in vitro. were studied using cannulated, perfused vessel segments. The effect of angiotensin IV on cerebral blood flow after exptl. submarchmoid hemorrhage. And possible involvement of nitric oxide, was studied in rat. Subarachmoid hemorrhage and possible involvement of nitric oxide, was studied in rat. Subarachmoid hemorrhage and the ATI receptor mediated contraction of rat anterior cerebral blood flow was measured by laser-Doppler flowmetry. The main findings in the present studies were that angiotensin II was able to reverse the acute CBF redn. after subarachmoid hemorrhage. No evidence wa

(angiotensin receptor subtype role in cerebrovascular regulation in the rat)

Circulation
(brain; angiotensin receptor subtype role in cerebrovascular regulation in the rat)

(Circulation; angiotensin receptor subtype role in cerebrovascular regulation in the rat)

Receptors
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study): PROC (Process)
(angiotensin 11 AT1, angiotensin receptor subtype
role in cerebrovascular regulation in the rat)

Roceptors
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study): PROC (Process)
(angiotensin II ATZ, angiotensin receptor subtype
role in cerebrovascular regulation in the rat)

Lery (cerebral, angiotensin receptor subtype role in cerebrovascular regulation in the rat)

ANSWER 72 OF 123 CAPLUS COPYRIGHT 2003 ACS
5:865874 Document No. 123:282166 Hypertensive cerebrovascular
disease and the renin-angiotensin system. Rossi. GianPaolo; Rossi.
Alberto: Sacchetto. Alfredo: Pavan. Edoardo: Pessina. Achille C.
(University Hospitial. University Padua. Padua. 36126. Italy). Stroke
(Dallas). 26(9). 1700-6 (English) 1995. CODEN: SJCCA7. ISSN: 0039-2499.
Publisher: American Heart Association.
A review with 99 refs. Arterial hypertension is the leading cause of
cardiovascular disease and is association.
A review with 99 refs. Arterial hypertension is the leading cause of
cardiovascular disease and is association.
remodeling of the arterial wall. including accelerated atherosclerosis
occurring in hypertensive patients. Although the risk of hemorrhagic
stroke seems to be directly related to the level of blood pressure
elevation, no such tight relation has been found between blood pressure
elevation, no such tight relation has been found between blood pressure
elevation, no such tight relation has been found between blood pressure
elevation, no such tight relation has been found between blood pressure
elevation, no such tight relation has been found between blood pressure
elevation in the pressure of the pressure state of the concept that
a no. of genetic, humoral, and cellular factors may be involved in
atherogenesis in hypertensive patients. The expl. and clin. evidence
concerning the role of the renin-angiotensin system in cardiovascular
remodeling and atherogenesis of the cerebrovascular bed as well
as the data supporting an assocn. between angiotensin II
and thrombotic stroke are examd. The contribution of the
renin-angiotensin system to the pathogenesis of accelerated carotid artery
atherosclerosis and particularly of cerebrovascular bed savell. and clin.
data are consistent with the hypothesis that the renin-angiotensin system
may play a detrimental role.

may play a detrimental role. Hypertensive cerebrovascular disease and the renin-angiotensin

system
. . . patients. The exptl. and clin. evidence concerning the role of the renth-angiotensin system in cardiovascular remodeling and atherogenesis of the cerebrovascular bed as well as the data supporting an assocn. between angiotensin II and thrombotic stroke are examd. The contribution of the renin-angiotensin system to the pathogenesis of accelerated carotid artery atherosclerosis and particularly of cerebrovascular disease remains to be definitively proven. However, the bulk of exptl. and clin. data are consistent with the hypothesis that.
. review hypertension cerebrovascular disease renin angiotensin Brain, disease

Brain, disease

(cerebrovascular, hypertensive; renin-angiotensin system in) 9015-94-5. Renin, biological studies 11128-99-7. Angiotensin

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (renin-angiotensin system in hypertensive cardiovascular disease)

Page 34

ANSWER 71 OF 123 CAPLUS COPYRIGHT 2003 ACS

(diseases, subarachnoid hemorrhage, angiotensin receptor subtype role in cerebrovascular regulation in the

rat)
474-91-3. Human angiotensin II 114798-26-4.
474-91-3. Human angiotensin II 114798-26-4.
Losartan 127050-75-7. CGP 42112 130663-39-7. PD 123319
RL: BAC (Biological activity or effector. except adverse): BSU (Biological study, unclassified): BIO. (Biological study)
(angiotensin receptor subtype role in cerebrovascular

(angiotensin receptor subtype role in cerebrovascular regulation in the rat) 23025-68-5. Human angiotensin IV RL: BAC (Biological activity or effector, except adverse): BSU (Biological study). USES study. unclassified): THU (Therapeutic use): BIOL (Biological study): USES (USes)

(Uses)
(angiotensin receptor subtype role in cerebrovascular regulation in the rat)
10102-43-9, Nitric oxide, biological studies
RL: BPR (Biological process): BBU (Biological study, unclassified); BIOL
(Biological study): PROC (Process)
(angiotensin receptor subtype role in cerebrovascular regulation in the rat)
1128-99-7, Angiotensin II
RL: BSU (Biological study, unclassified): BIOL (Biological study)
(angiotensin receptor subtype role in cerebrovascular regulation in the rat)

regulation in the rat)

ANSWER 73 OF 123 CAPLUS COPYRIGHT 2003 ACS
35:809800 Document No. 123:189350 Suppression of cerebral vasodilation with endothelin-1. Kaito. Nobuyoshi: Onoue. Hisashi: Abe. Toshiaki (Dep. of Neurosurgery, Jikei Univ. School of Medicine. Tokyo. 105. Japan). Peptides (Tarrytom. New York). 16(6). 1127-32 (English) 1995. CODEN: PPTDOS. ISSN: 0196-9781. Publisher: Elsevier.

The authors investigated the effect of endothelin-1 on relaxation responses induced by vasodilators substances in canine middle cerebral arteries to better understand regulation of cerebrovascular tone and its potential impact on mechanism of cerebral vasospasm. Endothelin-1 elicited concn.-dependent contractions in helical strips of canine cerebral arteries (ECSO; 4.62. times. 10-9 N). Pretreatment with 10-9M endothelin-1 significantly reduced endothelium-dependent relaxations by nitroglycerin, prostaglandin 12: and KCI. Although endothelin-1 in a lower concn. (10-10M) did not affect these endothelium-independent relaxations by nitroglycerin, prostaglandin 12: and KCI. Although endothelin-1 in a lower concn. (10-10M) did not affect these endothelium-independent relaxations by nitroglycerin, prostaglandin 12: and KCI. Although endothelin-1 in a lower concn. (10-10M) did not affect these endothelin-1 also significantly reduced endothelium-dependent relaxation of canine mesenteric arteries induced by acetylcholine. Other vasoconstrictor peptides such as angiotensin-11 and vasopressin did not inhibit endothelium-dependent and -independent relaxations. These results indicate that endothelin-1 not only produces cerebral vasoconstriction but also interferes with vasodilator mechanisms and that endothelium-dependent vasodilation is more sensitive to the inhibitory effect of endothelin-1 than endothelium-independent vasodilation.

Effect of endothelin-1 not only produces cerebral vasoconstriction but also interferes with vasodilation endothelium-dependent endothelium-dependent relaxation of canine mesenteric arteries induced by acetylcholium-dependent re

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L1 ANSWER 74 OF 123 CAPLUS COPYRIGHT 2003 ACS
1995:761477 Document No. 123:169625 preparation of biphenylylmethyltetrazole
derivatives as angiotensin 11 antagonists. Hirata.
Terukage: Sakae. Nobuya: Tamura. Kolchi: Okuhira. Masayasu: Amano.
Hirotaka: Yokomoto. Masaharu: Komiyama. Jun (Wakunaga Setyaku K. K.)
Japan). PCT int. Appl. NO 9404516 Al 19940303. 122 pp. DESIGNATED
STATES: N. CA. Jp. KR. US. RN: AT. BE. CH. DE. OK. ES. FR. GB. GR. IE.
IT. LU. MC. NL. PT. SE. (Japanese). CODEN: PIXXD2. APPLICATION: NO
1993-JP1134 19930811. PRIORITY: Jp 1992-214094 19920811: Jp 1993-68706
                                            19930326
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

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The title compds. [I: A = 0, 0] (wherein Rl = H, alkyl, cycloalkyl, (un)substituted Ph, aralkyl, acyl, etc.; X = 0, S; Y = N, :CR2; Z = 0, N, :CR3 wherein R2, R3 = H, halo. (un)substituted alkyl, (protected) carboxyl, cycloalkyl, alkenyl, alkoxy, etc., R2 or R3 with adjacent C atoms may form benzo): B = cyano, (protected) carboxyl, tetrazol-5-yl], effective ampiotension and such other circulatory diseases as cerebral apoplexy, are prepd. Il was added to a suspension of NaH (55% in oil) in DMF with stirring, followed by a soln, of tetrazole deriv. Ill in DMF, the mixt. was stirred at room temp., the cond. filtrate was stirred with 10% HCl in dioxane to give IV, which showed an ICSO of 8.0 x 10-9 M against angiotensin II receptor binding. I also lowered blood pressure by 27.6-41.2% at 3 mg/kg orally in rats.
```

showed an Ltsu of 1-80 x lowered blood pressure by 27.6-41.2% at 3 mg/kg orally in rats. preparation of biphenylylmethyltetrazole derivatives as angiotensin II antagonists . . . alkenyl. alkoxy. etc.. R2 or R3 with adjacent C atoms may form benzo): B - cyano. (protected) carboxyl. tetrazol-5-yl], effective angiotensin II antagonists useful in treating hypertension and such other circulatory diseases as cerebral apoplexy. are prepd. II was added to a suspension of NaH (55% in oil) in DMF with stirring. followed by a. . . was stirred with 10% HCl in dioxane to give IV. which showed an IC50 of 8.0 x 10-9 M against angiotensin II receptor binding. I also lowered blood pressure by 27.6-41.2% at 3 mg/kg orally in rats. biphenylylmethyltetrazole prepn angiotensin II antagonist; antihypertensive biphenylylmethyltetrazole prepn: circulatory disease biphenylylmethyltetrazole prepn. Antihypertensives

Antihypertensives
(orepn. of heterocyclyl biphenyls as angiotensin II

167007-36-5P 167007-41-2P 167007-46-7P 167007-51-4P 167007-56-9P 167007-66-1P 167007-55-8P 167007-60-5P 167007-65-0P

167007-65-0P 167007-66-1P RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. of heterocyclyl biphenyls as angiotensin II

antagonists)

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L1 ANSWER 74 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANSWER 74 OF 123 CAPLUS CUPINISH ESSENCE
antagonists)

Receptors
RI: BR (Biological process): BSU (Biological study, unclassified): BIOL
(Biological study): PROC (Process)
(angiotensin II. antagonists,
(biphenylymethyl)tetrazole derivs.)
167007-67-2P

| Comprency by Immetricity | Detriance | Defrous | Defro 167005-05-2P 167005-10-9P 167005-15-4P 167005-20-1P 167005-25-6P 167005-30-3P 167005-35-8P 167005-40-5P 167005-45-0P 167005-14-57 167005-19-8P 167005-24-5P 167005-29-0P 167005-34-7P 167005-33-6P 167005-38-1P 167005-43-8P 167005-48-3P 167005-41-6P 167005-46-1P 167005-51-8P 167005-42-7P 167005-39-2P 167005-44-9P 167005-49-4P 167005-47-2P 167005-52-9P 167005-57-4P 167005-50-7P 167005-55-2P 167005-56-3P 167005-61-0P 167005-66-5P 167005-71-2P 167005-53-0P 167005-58-5P 167005-63-2P 167005-54-1P 167005-50-9P 167005-65-4P 167005-70-1P 167005-75-6P 167005-80-3P 167005-62-1P 167005-59-6P 167005-64-3P 167005-69-8P 167005-74-5P 167005-68-7P 167005-73-4P 167005-78-9P 167005-72-3F 167005-76-7P 167005-81-4P 167005-82-5P 167005-87-0P 167005-79-0P 167005-84-7P 167005-89-2P 167005-85-8P 167005-90-5P 167005-95-0P 167005-86-9P 167005-83-6P 167005-92-7P 167005-91-6P 167005-88-1P 167005-93-8P 167005-98-3P 167005-96-1P 167006-01-1P 167005-97-2P 167005-94-9P 167005-99-4P 167006-04-4P 167006-02-2P 167006-00-0P 167006-05-5P 167006-10-2P 167006-15-7P 167006-06-6P 167006-03-3P 167006-08-8P 167006-13-5P 167006-12-4P 167006-11-3P 167006-16-8P 167006-21-5P 167006-29-3P 167006-09-9P 167006-17-96 167006-14-6P 167006-19-1P 167006-25-9P 167006-22-6P 167006-30-6P 167006-35-1P 167006-20-4P 167006-28-2P 167006-33-9P 167006-38-4P 167006-18-0P 167006-16-07 167006-24-8P 167006-31-7P 167006-36-2P 167006-41-9P 167006-34-0P 167006-39-5P 167006-44-2P 167006-32-8P 167006-40-8F 167006-37-3P 167006-42-0P 167006-47-5P 167006-45-3P 167006-43-1P 167006-48-6P 167006-53-3P 167006-58-8P 167006-50-0F 167006-49-7P 167006-41-37 167006-46-4P 167006-51-1P 167006-56-6P 167006-54-4P 167006-59-9P 167006-55-5F 167006-52-2P 167006-60-2F 167006-57-7P

L1 ANSWER 75 OF 123 CAPLUS COPYRIGHT 2003 ACS 1995;742584 Document No. 123:144623 Preparation of alkylglycine derivatives with angiotensin II receptor antagonist activity.

Sato. Atsushi: Nozawa: Yoshihisa (Taiho Pharmaceutical Co Ltd. Japan).

Jpn. Kokai Tokkyo Koho JP 06287182 Az 19941011 Heisei. 27 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-11757 19940203. PRIORITY: JP 1993-18845 19930205.

[[N-(N-alkylg)ycyl)aminomethyl]biphenylyl]tetrazole derivs. [I: Rl = (un)substituted Ph. naphthyl, heterocyclyl contg. 1 or 2 N. 0. or S atoms: R2 = H. HOZCCHZ. Dower alkoxycarborylmethyl: R3 = lower alkyl: R4 = H. et alkoxycarborylmethyl: R3 = lower alkyl: R4 = H. et alkoxycarborylmethyl: R3 = lower alkyl: R4 = H. et alkyl: R4 = H. e

AR

```
ANSMER 75 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) cardiovascular agents for the treatment of hypertension, heart diseases, arteriosclerosis, and brain cerebral apoplexy, are prepad. Thus, 3.63 g N-n-pentyl-N-[[2]-(N-trityltetrazol-5-yl)biphenyl-4-yl]methyl]bromoacetamide (prepn. given) was dissolved in DMF followed by adding 1.50 g E N-henzyl]glycinate and . . and 14 I showed pA2. defined as -log(drug conc.) + log([Ed50 (drug)/ED50 (control)] - 1}, of 8.49-10.03 for inhibiting the angiotensin II induced contraction of rat thoreic aorta vs. 8.48 for the known angiotensin II receptor antagonist Dup-753. alkylglycine prepn angiotensin II receptor antagonist; antihypertensive alkylglycylaminomethylbiphenylyltetrazole; arteriosclerosis alkylglycylaminomethylbiphenylyltetrazole; brain cerebral apoplexy alkylglycylaminomethylbiphenylyltetrazole brain cerebral apoplexy alkylglycylaminomethylbiphenylyltetrazole Brain, disease (cerebral apoplexy; prepn. of [[N-(N-
  ANSWER 75 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
                            ain. disease
(cerebral apoplexy; prepn. of [[N-(N-
alkylglycyl)aminomethyl]biphenylyl]tetrazole derivs. as
angiotensin II receptor antagonists for treatment of
heart disease and brain cerebral apoplexy)
        Heart, disease
                                (prepr. of [[N-(N-alkylg]ycyl)aminomethyl]biphenylyl]tetrazole derivs. as angiotensin II receptor antagonists for treatment of heart disease and brain cerebral
        apoplexy)
Antiarteriosclerotics
  Antiarteriosclerotics
Antihypertensives
(prepn. of [[N-(N-alkylg]ycyl)aminomethyl]biphenylyl]tetrazole derivs.
as angiotensin II receptor antagonists.
antihypertensives, and antiarteriosclerotics)
6436-90-4P. Ethyl N-benzylglycinate 54608-35-4P. Ethyl
N-(2-phenylethyl)glycinate 60857-16-1P. Ethyl N-p-methoxybenzylglycinate
N-3-pyridylmethylglycinate 88720-42-7P. Ethyl N-o-chlorobenzylglycinate
8720-46-1P. Ethyl N-0-fluorobenzylglycinate 124750-51-2P 143096-13-3P
166592-13-8P 166592-45-6P 166592-46-7P 166592-47-8P 166592-43-9P
166592-50-3P 166592-51-4P 166592-55-6P Ethyl
N-5-methyl-2-pyrazinylmethylglycinate 166592-56-9P. Ethyl
N-5-methyl-1-2-pyrazinylmethylglycinate 166592-56-9P. Ethyl
N-benzyl-N-(carboxymethyl)glycinate 166592-55-6P. Ethyl
N-12-(o-methoxymethyl)glycinate 166592-59-2P. Ethyl
N-12-(o-methoxyphenyl)sthyllglycinate 166592-59-2P. Ethyl
N-12-0-methoxyphenyl)sthyllglycinate 166592-59-2P. Ethyl
N-12-0-methoxyphenyl)sthyllglycinate 166592-59-2P. Ethyl
N-12-0-methoxyphenyl)sthyllglycinate 166592-59-2P. Ethyl
                    (Reactant or reagent)

(intermediate for prepn. of [[N-(N-alkylglycyl)aminomethyl]biphenylyl]t

etrazole derivs. as angiotensin II receptor
```

L1 ANSWER 76 OF 123 CAPLUS COPYRIGHT 2003 ACS
1995-533543 Document No. 122:287921 Role of angiotensin II
in cerebrovascular and renal damage in deoxycorticosterone
acetate-salt hypertensive rats. Nada. Takeo: Kanagawa. Rei: Ishimura.
Yoshimasa: Inada. Voshiyuki: Nishikawa. Kohei (Pharmaceutical Research
Division. Takeda Chemical Industries. Ltd., Osaka, 532, Japan). Journa
of Hypertension. 13(1), 113-22 (English) 1995. CODEN: JOHYD3. ISSN:
0263-6352.

Division. Takeda Chemical Industries. Ltd. Osaka. 532. Japan). Journal of Hypertension. 13(1), 113-22 (English) 1995. CODEN: JOHYD3. ISSN: 0263-6352.

To study the effects of blockade of the renin-angiotensin system on the development of hypertension and end-organ damage in hyporeninemic deoxycorticosterone acetate (DOCA)-salt hypertensive rats. using an angiotensin II (ng II) receptor antagonist (TCV-116) or an angiotensin converting enzyme (ACE) inhibitor (enalapril). DOCA-salt hypertensive rats were produced by uninephrectomy. implantation with DOCA pellets and IX NaCl loading. TCV-116 (0.1 or 1 mg/kg) or enalapril (10 mg/kg) was given orally once a day from 3 to 6 wk after the operation. Body wt. blood pressure. plasma renin and creatinine. urinary protein and blood urea nitrogen were measured. After 3 wk treatment, edema and .omega.3-subtype benzodiazepine receptor binding in the brain were measured. Three weeks after the operation the blood pressure in the DOCA-salt hypertensive rats was approx. 200 mm/lg, and the plasma renin concn. was lower than in sham-operated rats. However, after a further 3 wk the renin concn. was slightly above the normal level, and this increase was accompanied by a decrease in body wt. and increases in blood urea nitrogen. plasma creatinine. urinary protein and onega.3-subtype benzodiazepine receptor binding in the cerebral cortex, and by brain edema. Threatment with ToV-116 or enalapril prevented renia dhange and decrease in body wt. with little effect on blood pressure. Enalapril prevented brain edema and the increase in benzodiazepine hinding in the renin-angiotensin system. He degree of cerebral and renal dhange and decrease in body pressure level.

Role of angiotensin II in cerebrovascular and renal damage in deoxycorticosterone acetate-salt hypertensive rats. . . the renin-angiotensin system on the development of hypertension and end-organ damage in hyporeninemic deoxycorticosterone acetate on the produced by uninephrectomy. . . angiotensin cerebrovascular kidney damage hy

(ALE) Infilition (Healay) To be a state (operation) uninephrectomy, angiotensin cerebrovascular kidney damage hypertension: deoxycorticosterone angiotensin damage hypertension Brain, disease

antagonists)

(angiotensin II in cerebrovascular and renal damage in deoxycorticosterone acetate-salt hypertensive rat)

Receptors
RL: BPR (Biological process): BSU (Biological study, unclassified): BIOL
(Biological study): PROC (Process)
(angiotensin II, angiotensin II

Page 36

L1 IT	166592-38-7P 166592-39-8P 166592	-00-3P 1 -05-8P 1 -10-5P 1 -15-0P 1 -20-7P 1 -25-2P 1 -30-9P 1 -35-4P 1 -40-1P 1	66592-06-9P 66592-11-6P 66592-16-1P 66592-21-8P 66592-26-3P 166592-31-0P 166592-36-5P 166592-34-2P	166592-02-5P 166592-07-0P 166592-12-7P 166592-17-2P 166592-22-9P 166592-22-4P 166592-32-1P 166592-37-6P 166592-42-3P	
	RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. of [[N-(N-alkylajvcy/)aminomethyl]biphenylyl]tetrazole derivs.				
	as angiotensin II receptor antagonists)				
	11128-99-7. Angiotensin II				
17	RL: BPR (Biological process): BSU (Biological study, unclassified); BIOL (Biological study): PROC (Process) (reaction in prepr. of [[N-(N-alkylglycyl)aminomethyl]biphenylyl]tetraz				
ΙT					
11	Cthul boompacetate 109-73-9 n-Butylamine, reactions 110-50-7,				
	n Dontylamine 5292.43-3 tert.Butyl brompacetate 17846-68-3.				
	Tributyltin azide 22118-09-8, Bromoacetyl chloride 114772-54-2. (2'-Cyanobiphenyl-4-ylmethyl)amine 124750-51-2. [2'-(N-Trityltetrazol-5-				
	vl)biphenyl-4-yl]methyl bromide				
	DI. DCT (Boactant): PACT (Reactant or reagent)				
	(reaction in preph. of [[N-(N-alkylglycyl)aminomethyl]biphenylyl]tetraz				
	ole derivs. as angiotensin II receptor antagonists)				

L1 ANSWER 76 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) in cerebrovascular and renal damage in deoxycorticosterone acetate-salt hypertensive rat)

Richard Sacrage (Injury, angiotensite (Information)

Kidney, disease

(Injury, angiotensin II in cerebrovascular
and renal damage in deoxycorticosterone acetate-salt hypertensive rat)

64-85-7, Deoxycorticosterone

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(angiotensin II in cerebrovascular and
renal damage in deoxycorticosterone acetate-salt hypertensive rat)
11128-99-7. Angiotensin-II

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or
effector, except adverse); BSU (Biological study, unclassified); BIOL
(Biological study)
(angiotensin II in cerebrovascular and
renal damage in deoxycorticosterone acetate-salt hypertensive rat)
9015-82-1, Dipeptidyl carboxypeptidase 9015-94-5, Renin, biological
studies

studies
RL: BAC (Biological activity or effector. except adverse); BSU (Biological study) unclassified); BIOL (Biological study)
(angiotensin II in cerebrovascular and renal damage in deoxycorticosterone acetate-salt hypertensive rat)
75847-73-3. Enalapril 145040-37-5. TCV-116
RL: BAC (Biological activity or effector. except adverse); BSU (Biological study); USES (IGES)

(angiotensin II in cerebrovascular and

renal damage in deoxycorticosterone acetate-salt hypertensive rat)

- ANSWER 77 OF 123 CAPLUS COPYRIGHT 2003 ACS
 5:215112 Document NO. 122:1739 Angiotensin IV reverses the acute cerebral blood flow reduction after experimental subarachnoid hemorrhage in the rat. Naveri. Lisia: Stromberg. Christer: Saavedra. Juan M. (Laboratory of Clinical Science, National Institute of Mental Health. Bethesda. ND. 20892. USA). Journal of Cerebral Blood Flow and Metabolism. 14(6), 1096-9 (English) 1994. CODEN: JCBHON. ISSN: 0271-678X.

 The effect of angiotensin (ANG) IV on CBF after exptl. subarachnoid hemorrhage (SAH) was studied in rats using laser-Doppler flowmetry. ANG IV (1. mu.g/kg/min i.v.) or saline treatments were started 20 min after SAH. ANG IV increased CBF (from 45 to 84% of baseline) by 60 min. In the saline group. CBF remained low (51%). Pretreatment with the specific ANG II antagonist Safi. Ile8-AMS II did not antagonize ANG IV. Detn. of nitric oxide synthase (NOS) activity in vitro or inhibition of NOS in vivo did not support a role for NO in the action of ANG IV.

- in vitro or inhibition of MOS in vivo did not support a fire to wo maction of ANG IV.

 Angiotensin IV reverses the acute cerebral blood flow reduction after experimental subarachnoid hemorrhage in the rat.

 The effect of angiotensin (ANG) IV on CBF after exptl.

 subarachnoid hemorrhage (SAH) was studied in rats using laser-Doppler flowmetry. ANG IV (1 .mu.g/kg/min i.v.) or saline treatments were started 20 min. . .

 angiotensin brain circulation subarachnoid hemorrhage

Circulation

(angiotensin degrdn. product reversal of cerebral blood flow redn. in subarachnoid hemorrhage)

Receptors Receptors
RL: BPR (Biological process): BSU (Biological study. unclassified): BIOL
(Biological study): PROC (Process)
(angiotensin II. angiotensin degrdn. product
reversal of Cerebral blood flow redn. in subarachnoid

hemorrhage)

IT Meninges

Meninges
(diseases. subarachnoid hemorrhage. angiotensin
degrdn. product reversal of cerebral blood flow redn. in
subarachnoid hemorrhage)
23025-68-5. Angiotensin IV
RL: BAC (Biological activity or effector. except adverse): BSU (Biological
study. unclassified): THU (Therapeutic use): BIOL (Biological study): USES
(Uses)

(angiotensin degrdn. product reversal of cerebral blood flow redn. in

(anglotensin degran, plouder leversal of except subarachnoid hemorrhage) 10102-43-9. Mitric oxide. biological studies RL: BAC (Biological activity or effector. except adverse); BPR (Biological process); BSU (Biological study. unclassified); BIOL (Biological study); PROC (Process)

- L1 ANSWER 78 OF 123 CAPLUS COPYRIGHT 2003 ACS 1994:646383 Document No. 121:246383 Endothelium-derived vasocontracting factor (EDCF): TXA2. Kurahashi. Kazuyoshi: Usui. Hachiro (Radioisot. Re Cent., Kyoto Univ., Kyoto. 606. Japan). Igaku no Ayumi. 170(5). 416-19 (Japanese) 1994. CO0EN: IGAYAY. ISSN: 0039-2359. Publisher: Ishiyaku
- Shuppan.

 A review, with 12 refs., on the acetylcholine-dependent constriction of canine cerebral artery, which is endothelium-dependent contraction (EDC) sensitive to phospholipase A2 inhibitors. cyclooxygenase inhibitors, and TXA2 inhibitors. The EDC is not sensitive to lipoxygenase inhibitors. Serotonin-induced constriction is independent of endothelium. Noradrenaline, histamine, and angiotensin II induce EDC by release of TXA2 as does acetylcholine. Gerebrospinal fluid of subarachnoid hemorrhage induces EDC. The process of TXA2 release as endothelium-derived contracting factor (EDCF) is sensitive
- to nifedipine.

 and TXA2 inhibitors. The EDC is not sensitive to lipoxygenase inhibitors. Serotonin-induced constriction is independent of endothelium. Noradrenaline, histamine, and angiotensin II induce EDC by release of TXA2 as does acetylcholine. Cerebrospinal fluid of subarachnoid hemorrhage induces EDC. The process of TXA2 release as endothelium-derived contracting factor (EDCF) is sensitive to nifedipine.

 51-41-2, Noradrenaline 51-45-6, Histamine, biological studies 51-84-3, Acetylcholine, biological studies 11128-99-7, Angiotensin II
- - 11 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (endothelium-derived contracting factor TXA2 release in cerebral artery

Page 37

- L1 ANSWER 77 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
 (angiotensin degrdn. product reversal of cerebral blood flow redn. in
 subarachnoid hemorrhage independent of nitric oxide)

125978-95-2. Nitric oxide synthase RL: BPR (Biological process): BBU (Biological study, unclassified): BIOL (Biological study): PROC (Process) (angiotensin degrdn, product reversal of cerebral blood flow redn. in subarachnoid hemorrhage independent of nitric oxide;

L1 ANSWER 79 OF 123 CAPLUS COPYRIGHT 2003 ACS
1994:579625 Document No. 121:179625 Antihypertensive
[[[[Imidazopyridiny]]methy]]benzofuraryl]phenyl]methanesulfonamide
Derivatives. Judd. Ourcan Bruce (Glaxo Group Ltd.. UK). PCT Int. Appl.
NO 9411369 A1 19940366. 32 pp. DESIGNATED SIATES: N: AT. AU. BB. BG. BR.
BY. CA. CH. CZ. DE, DK. ES. FI. GB. HU. JP. KP. KR. KZ. LK. LU. LV. MG.
MN. MM. NL. NO. NZ. PL. PT. RO, RU. SD. SE. SK. UA. US. UZ. VW: RN: AT.
BE. BF. BJ. CF. CG. CH. CI. CM. DE. DK. ES. FR. GA. GB. GR. IE. IT. LU.
NC. ML. MR. NE. NL. PT. SE. SN. TD. TG. (English). CODEN: PIXXOZ.
APPLICATION: NO 1993-EP3157 19931111. PRIORITY: GB 1992-23860 19921113.

Specific compds. were claimed. i.e. N-[2-[3-chloro-5-[(5.7-dimethyl-2-ethyl-3H-imidazo(4.5-b]pyridin-3-yl)methyl]-2-benzofuranyl]phenyl]Irifluoromethanesulfonantde (1): 3-[[3-chloro-2-[2-[(trifluoromethyl)]Irifluoromethanesulfonantde (1): 3-[[3-chloro-2-[2-chyl-3-h-imidazo[4.5-b]pyridin-5-NeOH: N-[2-[3-chloro-5-[[2-ethyl-3--2-hyl-3-h-imidazo[4.5-b]pyridin-5-henzofuranyl]methyl]-2-ethyl-7-methyl-3H-imidazo[4.5-b]pyridin-6-5-methanesulfonamide: 3-[[3-chloro-2-[2-chydroxypropyl)]-7-methyl-3H-imidazo[4.5-b]pyridin-5-methanesulfonamide: 3-[[3-chloro-2-[2-chydroxypropyl-]]-1-methyl-2-propyl-3H-imidazo[4.5-b]pyridin-3-yl]methyl-7-methyl-2-propyl-3H-imidazo[4.5-b]pyridin-3-yl]methyl-2-benzofuranyl]phenyl[1rifluoromethanesulfonamide. The invention further relates to processes for their prepn., pharmaceutical compns. contg. them. and to their use in medicine, particularly in the treatment of hypertension. The above compds. are claimed for the treatment of congestive heart failure, renal insufficiency, renal failure, proteinuria. Bartter's syndrome. secondary hyperaldosteronism. Raynaud's syndrome. cerebrovascular insufficiency, peripheral vascular disease. diabetic retinopathy, glaucoma. cognitive disorders. (NS disorders. depression, schizophrenia, and anxiety.

. . are claimed for the treatment fo congestive heart failure, renal insufficiency, renal failure, proteinuria. Bartter's syndrome, secondary hyperaldosteronism. Raynaud's syndrome. cerebrovascular insufficiency, peripheral vascular disease, diabetic retinopathy, glaucoma. cognitive disorders. CNS disorders. depression, schizophrenia, and anxiety.

Brain, disease

Brain, disease

(cerebrovascular insufficiency, [[[(imidazopyridinyl)methyl]b

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L1 ANSWER 79 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
enzofuranyl]phenyl]methanesulfonamides for treatment)
IT 11128-99-7. Anglotensin II
RL: RCT (Reactant): RACT (Reactant or reagent)
(antagonists. [[[(imidazopyridinyl]methyl]benzofuranyl]phenyl]methanesulfonamides)
                      (Integorists 19725-82-1P 157725-83-2P 157725-84-3P 157725-85-4P 157725-81-0P 157725-82-1P 157725-83-2P 157725-84-3P 157725-85-4P RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. of. as angiotensin II antagonist)
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ANSWER 80 OF 123 CAPLUS COPYRIGHT 2003 ACS
                                                                                                                  (Continued)
Receptors
RL: BIOL (Biological study)
(angiotensin II ATZ. in brain circulation
regulation. in hemorrhagic hypotension)
Hypotension
Hypotension
(hemorrhagic. brain circulation in. angiotensin II
AT2 receptor regulation of)
4474-91-3. Human angiotensin II 114798-26-4.
Losartan 130663-39-7. PD 123319
RL: BIOL (Biological study)
(brain circulation in response to. in hemorrhagic hypotension)
```

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L1 ANSWER 80 OF 123 CAPLUS COPYRIGHT 2003 ACS

1994:474532 Document No. 121:74532 Angiotensin II AT2
receptor stimulation increases cerebrovascular resistance during
hemorrhagic hypotension in rats. Naeveri, Lifsa: Stroemberg, Christer;
Saavedra, Juan M. (Section on Pharmacology, Laboratory of Clinical
Science, National Institute of Mental Health, National Institutes of
Health, 9000 Rockville Pike, Bethesda, NO 20892, USA). Regulatory
Peptides, 52(1), 21-9 (English) 1994. CODEN: REPPOY. ISSN: 0167-0115.

AB The effects of the angiotensin II (ANG II) ATZ ligand
pp 123319 and the ATI antagonist losartan on cerebral blood flow (CBF)
were studied during hemorrhagic hypotension in anesthetized rats using
laser-Doppler flowmetry. In the control group CBF remained stable when
mean arterial blood pressure (NASP) was lowered from 84 mmly (baseline) to
45 mmly, whereafter there was a pressure dependent decrease in CBF
indicating inadequacy of autoregulation. Cerebrovascular
resistance (CVR) was reduced until NASP 40 mmly, where a max. dilation was
reached. Pp 123319 dose-dependently (3-30 mg/kg i.v. had an effect similar
to Pp 123319. Selective stimulation of ATZ receptors with i.v. ANG II
infusion. In the presence of ATI receptor blockade by losartan, also
increased CVR. As a result. reduced CBF was seen in the treatment groups.
The effects of ANG II antagonist Sarl.11e8-ANG II (4.m.,g/kg/min i.v.).
None of the treatments affected baseline (CBF. The results confirm that
ANG II contributes to cerebrovascular resistance and
participates in the regulation of CBF apparently through ATZ receptors.

AB The effects of the angiotensin II (ANG II) ATZ ligand
policipates in the regulation of CBF apparently through ATZ receptors.

AB The effects of the angiotensin II (ANG II) ATZ ligand
by Lagrand and the ATI antagonist losartan on cerebral blood flow (CBF)
were studied during hemorrhagic. . . from 84 mmly (baseline) to 45
mmly, whereafter there was a pressure dependent decrease in CBF indicating
inadequacy of autoregulation. Cere
                                                                        AT2 receptors.
                                                                Brain
                                                                                          (circulation of, in hemorrhagic hypotension, angiotensin
II AT2 receptor regulation of)
                                                                11 At2 receptor ...
Hemorrhage (hypotension from, brain circulation in, angiotensin 11 AT2 receptor regulation of)
                         IT AT Circulation
(of brain, in hemorrhagic hypotension, angiotensin II
AT2 receptor regulation of)
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L1 ANSWER 81 OF 123 CAPLUS COPYRIGHT 2003 ACS
1994:450765 Document No. 121:50765 The role of angiotensin
II in the regulation of cerebrovascular function in the
rat. Saavedra. Juan M. (Laboratory of Clinical Science, National
Institute of Mental Health. Bethesda. MD. 20892. USA). Pharmacological Letters, 3(6), 256-9 (English) 1994. CODEN: PPLEE3.
ISSN: 0939-9488.

AB Anaintensin II have been added to the property of the proper rat. Saavedra, Juan M. (Laboratory of Cinical Science, National Institute of Mental Health, Bethesda, MD. 20892, USA). Pharmaceutical and Pharmacological Letters, 3(6), 256-9 (English) 1994. CODEN: PPLEE3. ISSN: 0939-9488. Angiotensin II has been proposed to play a role in cerebrovascular control. With quant. autoradiog, and selective competitors, the authors demonstrated angiotensin II
AT2 receptors in rat cerebral arteries. Selective angiotensin II AT2 receptor simulation with an angiotensin II at1 and AT2 receptor load autoregulation. Angiotensin II
AT2 receptor stimulation with an angiotensin II
AT3 receptor stimulation with an angiotensin II
AT4 receptor stimulation with an angiotensin II
AT5 receptor stimulation with an angiotensin II
AT6 receptor stimulation with an angiotensin II
AT7 receptor stimulation with an angiotensin II
AT8 receptor stimulation with an angiotensin II
AT9 receptor stimulation with an angiotensin II
AT9 receptor stimulation of load autoregulation. Similar results were obtained with the AT2 selective ligands PD 12339 and CGP 42112. and with administration of losartan alone. These results indicate a significant role for the angiotensin II system in the regulation of cerebrovascular disorders.

The role of angiotensin II in the regulation of cerebrovascular disorders.

The role of angiotensin II in the regulation of cerebrovascular control. With quant. autoradiog, and selective competitors, the authors demonstrated angiotensin II
AT2 receptors in rat cerebral arteries. Selective angiotensin II
AT2 receptor in rat cerebral arteries. Selective angiotensin II
AT3 receptor in a Coreptor ligands modulate the upper limit of the cerebral blood flow autoregulation. Angiotensin II
AT4 receptor stimulation with an angiotensin II
AT5 receptor stimulation with an angiotensin II infusion in the presence of the AT1 antagonist losartan extends the upper limit of cerebrovascular tone. Selective nonepetidic AT1 and AT2 compds. Could be useful for the treatment or prevention of cerebrovascular disorder brain circulation angiotensin II (circulation of, angiotensin II regulation of) IT Circulation (of brain, angiotensin II regulation of) Receptors
RL: BIOL (Biological study)
(angiotensin II AT1, in brain circulation Receptors
RL: BIOL (Biological study)
(angiotensin II AT2, in brain circulation regulation)

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L1 ANSWER 83 OF 123 CAPLUS COPYRIGHT 2003 ACS
1994:213748 Document No. 120:213748 Cerebrovascular autoregulation
in response to hypertension induced by NC-nitro-L-arginine methyl ester.
Kelly, P. A. T.; Thomas, C. L.; Ritchie, I. M.; Arbuthortt, G. W. (Dep.
Clin. Neurosci., Univ. Edinburgh, Edinburgh, UK). Neuroscience (Oxford,
United Kingdom), 59(1), 13-20 (English) 1994. CODEN: NRSCDN. 1SSN:
0306-4522.
                                Clin. Neurosci. Univ. Edinburgh, Edinburgh, UK). Neuroscience (Oxford. United Kingdom). 59(1). 13-20 (English) 1994. CODEN: NRSCON. ISSN: 0306-4522.

Local neocortical blood flow and glucose utilization were measured in conscious rats using [14C]iodoantipyrine and [14C]2-deoxyglucose quant. autoradiog.. resp.. following i.v. injection of the nitric oxide synthase inhibitor NG-nitro-L-arginine Me ester (L-NAME) (30 mg/kg). The dose of L-NAME was chosen to produce a level of hypertension equiv. to that produced in a parallel group of rats by the infusion of angiotensin-11 (5 mu.g/ml. at 0.5-2.0 ml/h). In those animals in which angiotensin-induced hypertension did not exceed 150 mmHg (mean arterial blood pressure). there were no significant effects upon cortical blood flow when compared to controls. but at higher pressures (157 mmHg). blood flow was significantly increased in circumscribed areas of cortex. most notably in parietal (from 204 to 780 ml/100 g/min) and occipital cortex (from 175 to 600 ml/100 g per min), while other cortical areas (e.g. temporal and frontal a reas) were unchanged. Despite the fact that L-NAME Me ester increased blood pressure to levels (164 mmHg) which were in excess of the highest produced by angiotensin, there was no evidence of focal hyperemia: indeed blood flow was significantly reduced in every cortical region except parietal area 1. No significant differences in glucose use were evident between any of the groups. Apparently, by influencing cerebrovascular tone, nitric oxide may play a role in detg. the upper limit of autoregulation, but also inhibition of nitric oxide synthesis may result in a dissocn, of blood flow from the metabolic demands of cortical tissues.

Cerebrovascular autoregulation in response to hypertension induced by MG-nitro-L-arginine methyl ester

1 to produce a level of hypertension did not exceed 150 mmHg (mean arterial blood). except parietal area 1. No significant differences in glucose use were evident between any of the groups. Apparently, by influencing
                                                         Hypertension
                                                                                    (cerebrovascular autoregulation response to. nitric oxide
                                                                                    role in)
                                                         10102-43-9. Nitric oxide. biological studies
RL: BIOL (Biological study)
(cerebrovascular autoregulation mediated by)
11128-99-7. Angiotensin II
                   RI: BIG. (Biological study)
(hypertension induced by. cerebrovascular autoregulation response to. nitric oxide in relation to)

IT 50-99-7. D-Glucose. biological studies
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ANSWER 81 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANSWER 81 OF 123 CAPLUS CUPPINION 2000 ACS Artery, composition (cerebral, angiotensin II AT2 receptor of) 4474-91-3. Human angiotensin II RL: BIOL (Biological study) (brain circulation in response to) 11128-99-7. Angiotensin II

RL: BIOL (Biological study)
(receptor for. in brain circulation regulation)

L1 ANSWER 82 OF 123 CAPLUS COPYRIGHT 2003 ACS
1994;260880 Document No. 120:260880 Quinapril prevents stroke both during and after the treatment period in stroke-prone spontaneously hypertensive rats. Vacher. Elisabeth: Fornes. Paul: Domergue, Valerie: Richer. Christine: Bruneval. Patrick; Giudicelli, Jean Francois (Dep. Pharmacol., Fac. Med., Paris-Sud. Fr.). American Journal of Hypertension. 6(11. Pt. 1), 951-9 (English) 1993. CODE: AJHYEG. ISSN: 0995-7061.

AB The effects of long-term oral administration of quinapril on the occurrence of stroke and on mortality were investigated in young. salt-loaded. stroke-prone spontaneously hypertensive rats (SIR-SPs) during the treatment period (Bth-34th week of age) and for .ltoreq.6 wk thereafter. Simultaneously. blood pressure, salt intake. diuresis, and proteinuria were investigated at regular intervals. and cerebrovascular. renal. and cardiac lesions were assessed after death. Quinapril completely suppressed stroke and mortality. afforded only limited protection against the blood pressure rise, and prevented increases in salt intake. diuresis, and proteinuria both during and after the treatment period. Quinapril long-lastingly prevented vascular fibrinoid necrosis development at the cerebral, but also at the renal and cardiac. levels. In the kidneys, vascular intimal and medial hyperplasias were strongly reduced. as were the glomerular and tubulointerstitial lesions. At the cardiac level, intimal and medial hyperplasias were slightly reduced but infraction and fibrosis were hardly affected. As the renin-angiotensin system is highly stimulated in SIR-SPs and as angiotensin II (AII) is responsible for fibrinoid necrosis formation, vessel obstruction, and stroke in these animals, it is concluded that the long-lasting protection afforded by quinapril against stroke and mortality in SIR-SPs both during and after the treatment period is mostly due to the drug-induced interruption of the renin-angiotensin system. The resulting suppression of AII also prevents renal and, to

ANSWER 83 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) RL: BIOL (Biological study)
(uptake of. by brain. cerebrovascular autoregulation and
nitric oxide in relation to)

ANSWER 84 OF 123 CAPLUS COPYRIGHT 2003 ACS
1:127189 Document No. 120:127189 Chronic lead exposure in rats: effects
on blood pressure. Nowack, R.: Wiecek, A.: Exner, B.: Gretz, N.: Ritz, E.
(Dep. Intern. Med. Univ. Heidelberg. Heidelberg, Germany). European
Journal of Clinical Investigation. 23(7), 433-43 (English) 1993. CODEN:

(Dep. Intern. Med.: Univ. Heidelberg, Heidelberg, Germany). European Journal of Clinical Investigation, 23(7), 433-43 (English) 1993. CODEN: EJCIBB. ISSN: 0014-2972. The influence of Pb exposure on blood pressure was investigated in Wistar Kyoto. Sprague Dawley and stroke prone spontaneously hypertensive rats. In short-term expts... a dose-dependent decrease of blood pressure was found with administration of Pb acetate in drinking fluid. This effect was more pronounced in young, male as compared to old. female animals. Pressor responses to noradrenaline and ANG II were decreased. In contrast. long-term Pb exposure of more than 1 yr duration consistently caused hypertension. In SIR-sp a high proportion of animals died from cerebrovascular hemorrhage even before developing hypertension. Chronically Pb exposed hypertensive rats had increased plasma vol. and total body sodium despite normal renal function. Plasma concris. of Pb on blood pressure. An important role of renal sodium retention in chronic Pb-induced exptl. hypertension is suggested.

Pe exposure of more than 1 yr duration consistently caused hypertension. In SIR-sp a high proportion of animals died from cerebrovascular hemorrhage even before developing hypertension. Chronically Pb exposed hypertensive rats had increased plasma vol. and total body sodium despite normal.

51:41-2. Noradrenaline 7440-09-7. Potassium. biological studies 7440-23-5. Sodium. biological studies 7440-70-2, Calcium. biological studies 1128-99-7. Angiotensin II RL: BIOL (Biological study) (lead effect on blood pressure in relation to)

(lead effect on blood pressure in relation to)

- ANSWER 86 OF 123 CAPLUS COPYRIGHT 2003 ACS
- L1 ANSWER 86 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1993:462704 Document No. 119:62704 Stroke prevention by losartan in stroke-prone spontaneously hypertensive rats. Stier. Charles T., Jr.; Adler. Lawrence A.: Levine. Seymour: Chander. Praveen N. (Dep. Pharmacol.) New York Med. Coll. Valhalla. NY. 10595. USA). Journal of Hypertension. 11(3), S37-S42 (English) 1993. CODEN: JOHYDO. ISSN: 0263-6052.

 AB Treatment with the angiotensin II antagonist losartan at 30 mg/kg/day, orally. delayed the development of severe hypertension and prevented stroke in saline-drinking stroke-prone spontaneously hypertensive rats (SNRSP); doses of 10 mg/kg/day did not affect the hypertension but prevented the occurrence of cerebrovascular lesions until age_gtoreq.28 kw. These and other data are consistent with the theory that angiotensin II has an effect on the pathophysiol. of cerebrovascular lesion development in saline-drinking SNRSP and that losartan protects against such development in the absence of a blood pressure fall.

 AB Treatment with the angiotensin II antagonist losartan at 30 mg/kg/day. orally. delayed the development of severe hypertension and prevented stroke in saline-drinking stroke-prone spontaneously hypertensive rats (SIKSP); doses of 10 mg/kg/day did not affect the hypertension but prevented the occurrence of cerebrovascular lesions until age_gtoreq.28 kw. These and other data are consistent with the theory that angiotensin II has an effect on the pathophysiol. of cerebrovascular lesion development in saline-drinking SIKSP and that losartan protects against such development in the absence of a blood pressure fall.

 Brain. disease (stroke. losartan inhibition of. in stroke-prone hypertension. angiotensin II in relation to)

 Hypertension

angiotensin II in relation to)

(stroke-prone spontaneous, losartan inhibition of, angiotensin

(stroke-prone spontaneous, losartan inhibition of, angiocensin II in relation to)
11128-99-7. Angiotensin II
RL: BIOL (Biological study)
(stroke-prone spontaneous hypertension inhibition by losartan in relation to)
114798-26-4. Losartan
RL: BIOL (Biological study)
(stroke-prone spontaneous hypertension inhibition by. angiotensin II in relation to)

- L1 ANSWER 85 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1993:573911 Document No. 119:173911 Effect of chronic treatment with
 losartan on development of hypertension in stroke-prone spontaneously
 hypertensive rats (SHKSP): comparative study with enalaparil and
 hydralazine. Okada. Megumu: Kobayashi. Masahiko: Satoh. Noriko:
 Nishikibe. Masaru: lewnoto. Fusiniko (Tsukuba Res. Inst., Baryu Pharm.
 Co. 170. Tsukuba. Japan). Hypertension Research. 16(1). 49-55 (English)
 1993. CODEN: HRESEA. ISSN: 0916-9636.
 AB SHRSP were treated with the title drugs at 5 to 13 wk of age. The
 angiotensin II antagonist losartan (10 mg/kg/day).
 enalapril (3 mg/kg/day) and hydralazine group; remained
 losartan and enalapril groups. but not in the hydralazine group, remained
 lower than that in controls for . litoreq.15 kv after discontinuation of
 treatment. Heart wt. in the losartan and enalapril groups was lower than
 that in controls at the ages of 16 and 29 wk. while there was no
 difference in heart wt. with hydralazine. At the age of 29 wk.
 cerebrovascular lesions. as judged by the histochem. obsd. leakage
 of parenterally infused horseradish peroxidase from the vessels. were
 decreased in all drug-treated groups. but the effect was most prominent in
 the group treated with losartan. Plasma renin activity and immunoreactive
 renin content in the juxtaglomerular cells were lower than those in
 controls. Losartan at 1 mg/kg/day had no appreciable effect on blood
 pressure. heart wt., plasma renin and anglotensin-converting enzyme
 activities, or immunoreactive renin content in the juxtaglomerular cells.
 These results suggest that the blockade of angiotensin
 II yields a persistent antihypertensive effect accompanied by
 protection of cerebral vessels from lesions and of the heart from
 hypertrophy.
 - protection of cerebral vessels from lesions and of the heart from hypertrophy.

 SIRSP were treated with the title drugs at 5 to 13 wk of age. The angiotensin II antagonist losartan (10 mg/kg/day) inhibited the age-related development of hypertension: in addm. blood. . . 16 and 29 wk. while there was no difference in heart wt. with hydralazine. At the age of 29 wk. cerebrovascular lesions. as judged by the histochem. obsd. leakage of parenterally infused horseradish peroxidase from the vessels. were decreased in all. . renin and angiotensin-converting enzyme activities. or immunoreactive renin content in the juxtaglomerular cells. These results suggest that the blockade of angiotensin II yields a persistent antihypertensive effect accompanied by protection of cerebral vessels from lesions and of the heart from hypertrophy. Ill28-99-7. Angiotensin II.

- L1 ANSWER 87 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1993.440818 Document No. 119:40818 Acute cocaine alters

 cerebrovascular autoregulation in the rat neocortex. Kelly, Paul

 A T.; Sharkey, John; Philip, Ross: Ritchie, Isobel M. (Dep. Clin.

 Neurosci., Univ. Edinburgh. Edinburgh. EHW 2XU. UX). Brain Research

 Bulletin. 31(5), 581-5 (English) 1993. (CORE: RRBUDL ISSN: 0361-9230.

 AB Although cocaine abuse has been assocd, with an increased incidence of

 cerebrovascular accident, the underlying mechanisms are unknown.

 In this study, the authors have investigated the effects of cocaine upon
 the autoregulation of local cortical blood flow (ICBF) during
 hypertension. Hypertension was induced in conscious rats by i.v. infusion
 of angiotensin-II (5 mu.g/ml.; 0.5-2.5 ml/h), and
 animals were subsequently injected IV with either cocaine-HCl (5 mg/kg) or
 saline, prior to the measurement of ICBF or glucose utilization (ICGU)
 using [14C]-iodoantipyrine or [14C]-2-deoxyglucose quant. autoradiog.
 resp. Hypertension alone (<155 mmHg) did not significantly alter ICBF in
 any cortical areas examd. However, at higher mean arterial blood pressure
 (MABP), ICBF increased focally (*265%) in parietal cortex. Cocaine did
 not alter ICBF in normotensive animals, but with increasing levels of
 hypertension (MABP > 145 mmigh), all occaine-treated rats showed focal
 increases (200-400%) in ICBF in parietal cortex. Glucose use remained
 relatively unaffected in all treatment groups. This hyperemia in
 cocaine-treated rats at MABP below the normal upper limit of
 autoregulation may provide a mechanism to explain hemorrhagic stroke in
 cocaine abusers.
- Acute cocaine alters cerebrovascular autoregulation in the rat
- neocortex
 Although cocaine abuse has been assocd, with an increased incidence of cerebrovascular accident, the underlying mechanisms are unknown.

 In this study, the authors have investigated the effects of cocaine upon the autoregulation of local cortical blood flow (ICBF) during hypertension. Hypertension was induced in conscious rats by 1.v. infusion of angiotensin-II (5 .mu.g/ml.; 0.5-2.5 ml/h), and animals were subsequently injected IV with either cocaine-HCl (5 mg/kg) or saline, prior to the.

 .cocaine cerebrovascular autoregulation hypertension 50-36-2. Cocaine

50-36-2. Cocaine
RL: BIOL (Biological study)
(brain circulation autoregulation response to, in hypertension.
cerebrovascular accidents in relation to)

L1 ANSWER 88 OF 123 CAPLUS COPYRIGHT 2003 ACS
1993:400553 Document No. 119:553 Control of blood pressure and end-organ damage in maturing salt-loaded stroke-prone spontaneously hypertensive rats by oral angiotensin II receptor blockade.
Camargo. Maria Jose F.: Yon Lutterotti. Nicola: Campbell, Wallace G. Jr.: Pecker: Mark S.: James, Gary D.: Timmermans, Pieter B.: Laragh, John H. (Med. Coll.: Cornell Univ. New York. NY. 10021, USA). Journal of Hypertension, 11(1), 31-40 (English) 1993. COMEN: JOHYD3. ISSN: 0263-6352.

AB The authors aimed to study the effects of contamonation.

- Hypertension. 11(1). 31-40 (English) 1993. CODEN: JOHNOS. ISSN: 0263-6352.
 The authors almed to study the effects of renin-angiotensin system blockade by a novel non-peptide angiotensin II receptor antagonist. losartan. on development of hypertension and acceleration of end-organ damage in salt-loaded stroke-prome spontaneously hypertensive rats (SHRSP). One hundred and eighty-one male SHRSP were fed a 4% sodium diet from 6 to 18 wk of age. Seventy-eight SHRSP were treated orally with losartan. 30 mg/kg per day. One hundred and three rats constituted untreated controls. Blood pressure. plasma renin activity (PRA). renal function and end-organ damage were monitored during the transition to malignant hypertension. Losartan prevented a blood pressure rise during the first 4 wk of salt loading. Thereafter, blood pressure rise during the first 4 wk of salt loading. Thereafter at each time-point studied blood pressure was significantly lower in losartan-treated rats than in control rats. Losartan treatment increased PRA during the first 4 wk, but this effect was not sustained. Thereafter. PRA decreased to control (week 0) levels. In contrast. 2 wk after high-sodium feeding started. untreated SHRSP failed to suppress PRA appropriately: thereafter. PRA rose significantly. Losartan affected renal pathophysiol. by blunting the decline in glomerular filtration rate, controlling proteinuria and preventing or delaying the appearance of malignant nephrosclerosis. Losartan treatment significantly increased survival and completely prevented cerebrovascular infarcts. The results indicate that angiotensin II blockade markedly reduces both hypertension and end-organ damage in chronically salt-loaded SHRSP and that the renin-angiotensin system may play an important role in the development of hypertensive cardiovascular disease in SHRSP. Control of blood pressure and end-organ damage in maturing salt-loaded Stroke-prone spontaneously hypertensive rats by oral angiotensin
- II receptor blockade
 The authors aimed to study the effects of renin-angiotensin system blockade by a novel non-peptide angiotensin II receptor antagonist. losartan. on development of hypertension and acceleration of end-organ damage in salt-loaded stroke-prone spontaneously hypertensive rats (SRRSP). One. rate, controlling proteinuria and preventing or delaying the appearance of ealignant nephrosclerosis, Losartan treatment significantly increased survival and completely prevented cerebrovascular infarcts. The results indicate that angiotensin II blockade markedly reduces both hypertension and end-organ damage in chronically salt-loaded SHRSP and

ANSWER 89 OF 123 CAPLUS COPYRIGHT 2003 ACS
:169107 Document No. 118:169107 Preparation of antihypertensive
benzofuran derivatives with N-linked lH-imidazolylmethyl-5-carboxamide
substituents. Ross. Barry Clive: Middlemiss. David: Scopes. David lan
carter: Jack. Torquil lain MacLean: Cardwell, Kevin Stuart; Dowle. Michael
Dennis: Judd. Duncan Bruce (Glaxo Group Ltd., UK). Eur. Pat. Appl. EP
514216 Al 19921119. 27 Pp. DESIGNATED STATES: R. AT. BE. CH. DE. DK. ES.
FR. GB. GR. IT. L1. LU. MC. NL. PT. SE. (English). CODEN: EPXXDM.
APPLICATION: EP 1992-304448 19920515. PRIORITY: GB 1991-10635 19910516.

Title compds. I (R1 = Et. Pr: R2 = C1. Me. Et: R3 = H. Me. Et). were prepd. Thus. 1.1-dimethylethyl [2-(3-bromo-5-methyl-2-benzofuranyl)phenyl]carbamate (prepn. from 5-methyl-benzofuran given) was converted in several steps to title compd. II. In a test for antihypertensive activity in renal-ligated hypertensive rats. II at 0.5 mg/kg orally showed a diastolic blood pressure redn. after 7 h of 60 (no units given). I are angiotensin II antagonists and are useful in treatment of cognitive disorders (no data). Pharmaceutical formulations contg. I are given.

at 0.5 mg/kg orally showed a diastolic blood pressure redn. after 7 h of 60 (no units given). I are angiotensin II antagonists and are useful in treatment of cognitive disorders (no data). Pharmaceutical formulations contg. I are given.

Brain. disease (cerebrovascular insufficiency, treatment of.

ΙT

Brain. disease
(cerebrovascular insufficiency, treatment of, benzofuraylimidazolecarboxamides for)
11128-99-7. Angiotensin II
RL: RCT (Reactant); RACT (Reactant or reagent) (anti)

Page 41

L1 ANSWER 88 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) that the renin-angiotensin system may play an

Antihypertensives
(angiotensin II antagonist as. in stroke-prone
spontaneous hypertension)
Kidney. disease
(injury. in salt-loaded stroke-prone spontaneous hypertension.
angiotensin II antagonist block of)

- L1 ANSWER 90 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1993:144836 Document No. 118:144836 Alterations of cerebromicrovascular
 Na+ K-AFPase activity due to fatty acids and acute hypertension.
 Caspers. Mary Lou; Bussone. Mary: Dow. Matthew J.: Ulanski 11. Lawrence
 J.: Grammas, Paula (Dep. Chem., Univ. Detroit Mercy, Detroit. MI, USA).
 Brain Research. 602(2). 215-20 (English) 1993. CODEN: BRREAP. ISSN:
 0006-8993.
 AB. Acute hypertension. Indicated in the Company of the Company o
- Brain Research, 602(2), 215-20 (English) 1993. CODEN: BRREAP. ISSN: 0006-8993.

 Acute hypertension. induced in rats by i.v. injection of angiotensin II. previously has been shown to increase cerebrovascular permeability to macromols. The purpose of this study was to examine the effect of acute hypertension on Na+.K+-ATPase. the enzyme responsible for controlling ionic permeability of the cerebromicrovascular endothelium. The K+-dependent p-introphenylphosphatase activity of the cerebromicrovascular and normothelium. The K+-dependent p-introphenylphosphatase activity of the cerebromicrovascular Na+.K+-ATPase was detd. using microvessels prepd. from hypertensive and normotensive rats. When compared to controls. a 70% decrease in the max. rate (Wmax) of the Na+.K+-ATPase from hypertensive rats was evident with no change in the Michaelis const. (KM). In contrast. gamma_glutamyltranspeptidase. a marker enzyme for cerebral endothelial cells. was not affected. Sodium arachidonate (1-100 mm.M) inhibited the phosphatase activity of the arachidonate (1-100 mm.M) inhibited the phosphatase activity of the responsibility of the control of the enzyme. while sodium oleate and sodium palmitate inhibited the Na+.K+-ATPase to lesser extents. This regulation of enzyme activity by fatty acids was comparable in control and hypertensive groups. In summary, the data indicate that the cerebromicrovascular har-K*-ATPase was altered as a consequence of acute hypertension and that poly-unsatd. fatty acids can modulate this enzyme in microvessels from either hypertensive or control rats.

 Acute hypertension, induced in rats by i.v. injection of angiotensin II, previously has been shown to increase cerebrovascular permeability to macromols. The purpose of this study was to examine the effect of acute hypertension on Na+.K*-ATPase, the enzyme.

L1 ANSWER 91 OF 123 CAPLUS COPYRIGHT 2003 ACS
1992:646043 Document No. 117:246043 Angiotensin II
receptor antagonist delays renal damage and stroke in salt-loaded Dahl
salt-sensitive rats. Von Lutterotti, Nicola: Camargo, Maria J. F.;
Campbell, Wallace G. Jr.; Mueller, Franco B.; Timmermans, Pieter B.;
Sealey, Jean E.; Laragh, John H. (Med. Coll., Cornell Univ., New York, NY.
10021. USA). Journal of Hypertension. 10(9), 949-57 (English) 1992.
COON: JOHYDO, ISSN: 0263-6523.

AB The effects of blockade of the renin-angiotensin system upon the
development of hypertension, end-organ damage, and mortality in Dahl
salt-sensitive (USS) rats were studied using an angiotensin
II receptor antagonist. losartan. Losartan blunted the Na-induced
blood pressure rise only transiently. Salt loading suppressed plasma
renin activity (PRA) in both groups until week 4 and thereafter it rose
more markedly in the treated group. With not treatment, renal lesions were
first detected at 2 wk and strokes at 6 wk. However, losartan transiently
decreased the incidence and delayed the progression of renal damage and
cerebrovascular lesions (strokes) and increased survival. PRA
correlated with renal damage and the incidence of strokes in both groups.
Blood pressure only partially affected survival, but did not correlate
with stroke incidence. Thus, although the rise in blood pressure is
dependent upon Na loading, morbidity and mortality in salt-loaded OSS rats
are assocd, with activation of the renin-angiotensin system and are only
partially related to blood pressure.

Ingiotensin II receptor antagonist delays renal damage
and stroke in salt-loaded Dahl salt-sensitive rats

. . . renin-angiotensin system upon the development of hypertension,
end-organ damage, and mortal ity in Dahl salt-sensitive (DSS) rats were
studied using an angiotensin system upon the development of hypertension,
wk and strokes at 6 wk. However, losarian transiently decreased the
incidence and delayed the progression of renal damage and
cerebrovascular lesions (strokes)

L1 ANSWER 93 OF 123 CAPLUS COPYRIGHT 2003 ACS
1992:253443 Document No. 116:253443 Clinical studies on serum
apolipoproteins in cerebrovascular diseases. Tsugu. Yasukuni
(Med. Sch. Nagoya City Univ. Nagoya. 467. Japan). Nagoya-shiritsu
Daigaku Igakkai Zasshi. 42(4). 877-90 (Japanese) 1991. CODEN: NASDAG.

ISSN: 0027-7606.

Cerebral infarction (CI) patients <59 yr old showed different blood apolipoprotein levels depending on artery disease. CI patients >60 yr old showed no specific tendency. The blood levels of apolipoproteins in controls were 135.0, 31.4, 97.5, 4.49. 8.78, and 4.50 mg/d. for AI, AII, B. CII. CIII. and E. resp.. CI patients with the distribution of a perforating artery (CIPA) exhibited increased levels of 14.9, 6.30, 13.28, and 6.19 mg/d. for B. CII. CIII and E. resp.. in the acute phase. CI patients with a distribution of a cortical artery (CICA) showed lower blood levels for AI and AII as 115.4 and 27.3 mg/d. resp. in acute phase. The level of AI in encephalorrhagia was decreased slightly at 122.9 mg/dL. CICA in chronic phase >1 mo after onset of the disease remained unchanged. CIPA in chronic phase showed increased blood levels of B. CIII. and E at 114.3, 11.33, and 5.76 mg/dL. resp. Encephalorrhagia in the chronic phase showed lower AI and AII levels as 122.5 and 27.5 mg/dL. resp. Acute phase CICA with diabetes mellitus (DM) showed higher clill levels of 13.79 mg/dL than CIPA without DM. Blood apolipoprotein levels in CICA were not different between primary and recurrent diseases. Recurrent CIPA showed lower blood levels of AI, AII. CII. and CIII. cIPA without recurrence showed high CII and CIII levels. The AI level appears to be an atherogenicity index, whereas CII reflects regain of infarction. Clinical studies on serum apolipoproteins in cerebrovascular diseases ISSN: 0027-7606. Cerebral infarction (CI) patients <59 yr old showed

Clinical studies on serum apolipoproteins in cerebrovascular diseases Cerebral infarction (CI) patients <59 yr old showed different blood apolipoprotein levels depending on artery disease. CI patients <50 yr old showed. specific tendency. The blood levels of apolipoproteins in controls were 135.0. 31.4. 97.5. 4.49. 8.87. and 4.50 mg/d. for AI. AII. B. CII. CIII. and E. resp.. CI patients with the distribution of a perforating artery (CIPA) exhibited increased levels of . the acute phase. CI patients with a distribution of a cortical artery (CICA) showed lower blood levels for AI and AII as 115.4 and 27.3 mg/dL. resp. in acute phase. The level of AI in encephalorrhagia was decreased slightly at 122.9. B. CIII. and E at 114.3. 11.33. and 5.76 mg/dL, resp. Encephalorrhagia in the chronic phase showed lower AI and AII levels as 122.5 and 27.5 mg/dL. resp. Acute phase CICA with diabetes mellitus (DM) showed higher levels of CII at. apolipoprotein levels in CICA were not different between primary and recurrent diseases. Recurrent CIPA showed lower blood levels of AI. AII. CIII. and CIII. CIPA without recurrence showed high CII and CIII thevels. The AI level appears to be an atherogenicity. blood apolipoprotein cerebrovascular disease diabetes Diabetes mellitus.

Diabetes mellitus
(apolipoproteins of blood serum of humans with cerebrovascular diseases and)

IT Lipoproteins

L1 ANSWER 92 OF 123 CAPLUS COPYRIGHT 2003 ACS
1992:585511 Document No. 117:185511 Angiotensin AT2 receptors regulate
cerebral blood flow in rats. Stomberg. Christer: Naveri. Liisa: Saavedra.
Juan M. (Lab. Clin. Sci.. Natl. Inst. Ment. Health. Bethesda. MD. 20892.
LISA). NeuroReport. 3(8). 703-4 (English) 1992. CODEN: NERPEZ. ISSN:

0959-4965. Large cerebral arteries have been reported to contain angiotensin receptors that are exclusively of the AT2 subtype. The effect of the AT2 receptor selective ligand PD 123319 on cerebral blood flow (CBF) in rats was measured by using a laser-doppler flowmeter. PD 123319 (1-10 mg/kg) dose-dependently inhibited the increase in CBF, when the blood pressure was increased by a norepinephrine infusion. However, PD 123319 did not alter baseline CBF at normal blood pressures. Therefore PD 123319 appears to interfere with the autoregulatory mechanisms of CBF. The participation of AT2 receptors in the regulation of CBF confirms a physiol. role for this receptor subtype, and may give clues for future treatment of various cerebrovascular disorders.

cerebrovascular disorders.
. regulation of CBF confirms a physiol. role for this receptor subtype. and may give clues for future treatment of various cerebrovascular disorders.

Receptors
RL: BIOL (Biological study)
(angiotensin II AT2. cerebral blood flow regulation

ANSWER 93 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) RL: BIOL (Biological study)
(apo-. A-1, of blood serum of humans with cerebrovascular diseases and diabetes) Lipoproteins
RL: BIOL (Biological study)
(apo-, A-II, of blood serum of humans with cerebrovascular diseases and diabetes) Lipoproteins
RL: BIOL (Biological study)
(apo-, B. of blood serum of humans with cerebrovascular

(apo. B. of blood serum of numers with terebrowascusts diseases and diabetes)
Lipoproteins
RL: BIOL (Biological study)
(apo. C-II. of blood serum of humans with cerebrowascular diseases and diabetes)

Lipoproteins
RL: BIOL (Biological study)
(apor. C-III. of blood serum of humans with cerebrovascular diseases and diabetes) Lipoproteins

Lipoproteins
NL: BIOL (Biological study)
(app-. E. of blood serum of humans with cerebrovascular diseases and diabetes)

Brain, disease (cerebrovascular, apolipoproteins of blood serum of humans

- L1 ANSWER 94 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1992.212340 Document No. 116:212340 Apolipoprotein levels in preeclamptic pregnancies. Kobayashi. Shinichi: Tanaka. Masanobu: Masaki. Kazuo: Hirakawa. Shun: Monose. Kazuo (Sch. Med.. Toho Univ. Tokyo. Japan). Nippon Sanka Fujinka Gakkai Zasshi. 44(2). 223-8 (Japanese) 1992. CODEN: NISFAY. ISSN: 0300-9165.

 AB Lipoprotein is known to increase during pregnancy but the factors responsible for the change have not been established. In addin. the lipoprotein order. In preeclamptic pregnancy is higher than in normal pregnancy. The apolipoproteins are an important determinant of metab. and the structure of plasma lipoproteins. In normal pregnancies. nonpregnancies and preeclamptic pregnancies the levels of blood apolipoproteins AI. AII. B and E were detd. by TIA methods. In normal pregnancies, the concrs. of apolipoproteins AI. AII. B and E were 182.6 mg/dl. (n = 12). 33.3 mg/dl. 128.6 mg/dl. and 6.8 mg/dl. resp. In the nonpregnancies the concrs. of apolipoproteins AI. AII. B and E were 183.6 mg/dl. (n = 5). 30.8 mg/dl., 76.0 mg/dl., and 4.4 mg/dl. resp. In the preeclamptic pregnancy the concrs. of apolipoproteins AI. AII. B and E were 181.0 mg/dl. (n = 22). 33.2 mg/dl., 145.7 mg/dl. and 5.8 mg/dl. resp. The concrs. of apolipoprotein B in preeclamptic pregnancy was higher and apolipoprotein E was lower than in normal pregnancies. Thus. the measurement of apolipoprotein is useful for the evaluation of preeclamptic pregnancy. AB . . metab. and the structure of plasma lipoproteins. In normal pregnancies and preeclamptic pregnancy as higher and apolipoprotein E methods. In normal pregnancies and preeclamptic pregnancy in normal pregnancies. nonpregnancies and preeclamptic pregnancy in normal pregnancies. Nonpregnancies and preeclamptic pregnancy. In normal pregnancies and preeclamptic pregnancy in normal pregnancies. Nonpregnancies and preeclamptic pregnancy. In normal pregnancies and preeclamptic pregnancy. In normal pregnancies and preeclamptic pregnancy. In normal pregnancie

- L1 ANSWER 96 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1992-99181 Document No. 116:99181 Effects of halothane in low concentrations on cerebral blood flow, cerebral metabolism, and cerebrovascular autoregulation in the baboon. Bruessel Thomas: Fitch, William: Brodner. Gerhard: Arendt. Irena: Van Aken. Hugo (Klin. Poliklin. Anaesthesiol. Oper. Intensivmed. Westfael. Wilhelms-Univ. Muenster. 4400. Germany). Anesthesia & Analgesia (Baltimore. MD. United States). 73(6). 758-64 (English) 1991. CODEN: AACRAT. ISSN: 0003-2999.

 Be allothane in anesthetic concros. caused cerebral vasodilatation and decreases cerebral oxygen consumption (CMRO). The purpose of this study was to evaluate cerebral blood flow (CF) and (CMRO) changes assocd. With low concros. of halothane. In 8 normoventilated baboons with background anesthesia maintained with phencyclidine and nitrous oxide. CBF and CMRO were studied during the administration of end-tidal concros. of halothane (0.12.3 0.25. 0.375. 0.5. 0.75. and 1.0 vol.%). Arterial blood pressure was supported by an infusion of angiotensin II amide at 0.75 and 1.0 vol.% of halothane to maintain an adequate cerebral perfusion pressure. In addn. cerebrovascular autoregulation was tested before and during the administration of 0.375. 0.75. and 1.0 vol.% of halothane. Cerebrovascular autoregulation was sessed by observing the response of CBF to an acute increase in mean arterial pressure produced by angiotensin. CRRO decreased as the concro. of halothane was increased. At low halothane concros. (0.125-0.375 vol.%). CBF decreased: however. at concros. above 0.375 vol.% CBF increased with a decrease in cerebrovascular resistance. Autoregulation was intact during 0.375 vol.% of halothane. Dut with 0.75 and 1.0 vol.% of halothane. EGF was passively dependent on cerebral perfusion pressure. Suggesting impaired autoregulation. suggesting impaired autoregulation.

 Effects of halothane in low concentrations on cerebral blood flow.

 cerebral metabolism. and cerebrovascular autoregulation in the
 - cerebroal mecaporism. and cerebrovascular autoregulation in the baboon concns. of halothane (0.12.3 0.25, 0.375, 0.5, 0.75, and 1.0 vol.%). Arterial blood pressure was supported by an infusion of angiotensin III amide at 0.75 and 1.0 vol.% of halothane to maintain an adequate cerebral perfusion pressure. In addm. cerebrovascular autoregulation was tested before and during the administration of 0.375, 0.75, and 1.0 vol.% of halothane. Cerebrovascular autoregulation was assessed by observing the response of CBF to an acute increase in mean arterial pressure produced by angiotensin. . . At low halothane concns. (0.125-0.375 vol.%). CBF decreased: however, at concns. above 0.375 vol.%. CBF increased with a decrease in cerebrovascular resistance. Autoregulation was intact during 0.375 vol.% of halothane. Dut with 0.75 and 1.0 vol.% of halothane. CBF was passively. . . halothane brain circulation oxygen: cerebrovascular autoregulation halothane
 - autoregulation halothane
 - IT
 - (cerebrovascular, halothane-induced, autoregulation impairment in relation to)

- L1 ANSWER 95 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1992:166025 Document No. 116:166025 The lipoxygenase inhibitor phenidone protects against proteinuria and stroke in stroke-prone spontaneously hypertensive rats. Munsiff. Amar V.: Chander, Praveen N.: Levine. Seymour: Stier, Charles T. Jr. (Dep. Pharmacol., New York Med. Coll., Valhalla. NY. 10595. USA). American Journal of Hypertension. 5(2), 56-63 (English) 1992. CODEN: ALHYE6. ISSN: 0895-7061.

 AB The present study examd. whether the dual cyclooxygenase/lipoxygenase inhibitor phenidone would protect stroke-prone spontaneously hypertensive rats (SHRSP) from stroke and hypertensive renal disease. Vehicle-treated SHRSP fed stroke-prone rodent diet and 1% saline. exhibited severe systolic blood pressure elevation (261 mmHyg), marked proteinuria (90 mg/day), and stroke, with an av. age at death of 14 kk. In a second group of six saline-loaded SHRSP. treatment with phenidone (60 mg/kg/day) was started at 8.4 kk of age. Depsite establishment of severe hypertension in this group (274 mmHyg). proteinuria remained at basal levels (28 mg/day). and sright of stroke were absent through at least 16 kk of age. Phenidone treatment also prevented the declines in body wt. and food intake obsd. in vehicle-treated SHRSP, and maintained urine vol. and saline intake. Serum 12-hydroxyelcosaterzenoric acid (12-HETE) generation was significantly inhibited >50% in incubates of whole blood from phenidone-treated SHRSP. It has been previously shown that agents which interfere with the renin-angiotensin system afford protection from renal and cerebrovascular injury in saline-loaded SHRSP; cyclooxygenase inhibition alone will hasten the onset of these pathol. changes. Whether phenidone-treated SHRSP. It has been previously shown that agents which interfere with the renin-angiotensin system afford protection from renal and cerebrovascular injury in saline-loaded SHRSP; cyclooxygenase inhibition alone will hasten the onset of these pathol. changes. Whether phenidone, which has been reported to

ANSWER 96 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

rculation (systemic. halothane effect on, cerebrovascular autoregulation in relation to)

ISI-67-7, Halothane RL: BIOL (Biological study) (cerebral circulation and metab. and cerebrovascular autoregulation response to low concns. of)

L1 ANSWER 97 OF 123 CAPLUS COPYRIGHT 2003 ACS

ANSWER 97 0F 123 CAPLUS COPYRIGHT 2003 ACS

992:35134 Document No. 116:35134 Endothelin-1 and big endothelin cause subarachnoid hemorrhage in the anesthetized rabbit.
Humeidi. A. Hamid S.; Thiemermann. Christoph; Lidbury. Paul S.;
D'Orlean-Juste. Pedro: Anggard. Erik E.; Afshar, Farhad: Vane. John R. (Med. Coll., St. Bartholomev's Hosp., London, ECIM 680. UN.). Journal of Cardiovascular Pharmacology. 17(Suppl. 7), 5492-5495 (English) 1991. COOR: JCPCOT. ISSN: 0160-2446.

Intra-arterial injection of endothelin-1 (ET-1) (1 mol/kg) or human big endothelin-1 (b-ET-1; 3 mol/kg) into anesthetized rabbits produced a rise in left ventricular systolic pressure (LVSP) and caused subarachnoid hemorrhage (SAH) in 75 and 88% of the expts. resp. In all animals, the SAH occurred in the subarachnoid space around the distal part of the basilar artery complex. The cyclooxygenase inhibitor indomethacin (5 mg/kg i.v.) potentiated the pressor effect of both peptides, and all animals pretreated with indomethacin prior to ET-1 or b-ET developed SAH. In contrast. rabbits treated with vehicle (saline). indomethacin alone, or the carboxy-terminal fragment of b-ET (CT 22-38; 3 mol/kg i.a.) developed neither a rise in LVSP non SAH. A rise in blood pressure alone is unlikely to account for the SAH brought about by the peptides for angiotensin II (1 mol/kg/min for 30 min) produced a greater increment in LVSP than ET-1 or b-ET, but did not cause SAH. In adm. there was no correlation between the rise in LVSP produced by ET-1 or b-ET and the severity of the SAH.

It findothelin-1 and big endothelin cause subarachnoid hemorrhage in the anesthetized rabbit.

Aba human big endothelin-1 (b-ET-1; 3 mol/kg) into anesthetized rabbit sproduced a rise in left ventricular systolic pressure (LVSP) and caused subarachnoid hemorrhage (SAH) in 75 and 88x of the expts. resp. In all animals. the SAH occurred in the subarachnoid space around. SAH. A rise in blood pressure alone is unlikely to account for the SAH brought about by the peptides for angiotensin II

Τī

(subarachnoid hemorrhage induction by endothelin-1 and big endothelin modulation by)

īΤ

(diseases, subarachnoid hemorrhage, endothelin-1 and big endothelin induction of)

Blood pressure

Blood pressure (systolic, subarachnoid hemorrhage induction by endothelin-1 and big endothelin independent of) 120796-97-6, Endothelin-38 (human) 123626-67-5. Endothelin-1 RL: BIO. (Biological study) (subarachnoid hemorrhage induction by)

L1 ANSWER 98 OF 123 CAPLUS COPYRIGHT 2003 ACS
1992:15600 Document No. 116:15600 Cerebrovascular effects of
angiotensin converting enzyme inhibition involve large artery dilatation
in rats. Postiglione. Alfredo: Bobklevicz. Teresa: Vinholdt-Pedersen.
Erik: Lassen. Niels A.: Paulson. Olaf B.: Barry. David I. (Neurobiol. Res.
Group. Rigshosp.. Den.). Stroke. 22(11). 1363-8 (English) 1991. CODEN:
SUCCA7. ISSN: 0039-2499.

Erik: Lassen, Niels A.: Paulson, Dlaf B.: Barry, David I. (Neurobiol, Res. Group, Rigshosp., Den.). Stroke, 22(11), 1363-8 (English) 1991. CODEN: SJCA7. ISSN: 0039-2499.

The aim of the study was to selectively examine the effects of converting enzyme inhibition on the large brain arteries by using concomitant inhibition of carbonic anhydrase to cause severe dilatation of mainly parenchymal resistance vessels. Cerebral blood flow was measured using the xenon-133 injection technique in three groups of Wistar rats either during carbonic anhydrase inhibition in three groups of Wistar rats either during carbonic anhydrase inhibition followed by converting enzyme inhibition with captopril 40 min later (treatment B), or during carbonic anhydrase inhibition with carbonic anhydrase inhibition are provided by converting enzyme inhibition 20 min earlier (treatment C). After treatment A, cerebral blood flow rose rapidly and stabilized within 20 min at an av. of 220 mL/100 g/min; flow remained stable until at least 60 min. After treatment B, cerebral flow increased by a further 17.4%, from an av. of 219 mL/100 g/min to an av. of 257 mL/100 g/min, after treatment C, cerebral blood flow stabilized at an av. of 230 mL/100 g/min, and average and a stabilized at an av. of 230 mL/100 g/min, and av. of 230 mL/100 g/min to an av. of 250 mL/100 g/min to a

59-66-5 RL: BIOL (Biological study) (cerebrovascular effects of angiotensin converting enzyme inhibition after carbonic anhydrase inhibition by, large artery

dilation in) 62571-86-2. Captopril

62571-86-2. Captopril
RL: BIOL (Biological Study)
(cerebrovascular effects of angiotensin converting enzyme
inhibition by. large artery dilation in)
9015-82-1. Angiotensin converting enzyme
RL: BIOL (Biological study)

(inhibitors of, cerebrovascular effects of, large artery dilation in)

L1 ANSWER 99 OF 123 CAPLUS COPYRIGHT 2003 ACS
1991.624184 Document No. 115:224184 Characterization of AT2
angiotensin II receptors in rat anterior cerebral
arteries. Tsutsumi, Keisuke: Saavedra, Juan M. (Lab. Clin, Sci., Natl.
inst. Ment. Health, Bethesda, MD. 20892, USA). American Journal of
Physiology, 261(3, Pt. 2), H667-H670 (English) 1991. CODEN: AJPHAP.

Inst. Ment. Health. Bethesda. MD. 20892. USA). American Journal of Physiology. 261(3. Pt. 2), 1667-1670 (English) 1991. CODEN: AJPHAP. ISSN: 0002-9513.
Quant. autoradiog. using the agonist 1251-Sarl-antiotensin II was used to localize and characterize angiotensin II (AT) receptors in the anterior cerebral artery of the male rat. This artery showed a moderately high no. of AT receptors. localized throughout the arterial wall. The no. of receptors was higher (125 fmol/mg protein) in arterial wall. The no. of receptors was higher (126 fmol/mg protein) in the anterior cerebral artery. AT binding was insensitive to displacement with the selective ATI antagonist Dup 753 but was readily displaced by the selective ATI antagonist Dup 753 but was readily displaced by the selective ATI antagonist Dup 753 but was readily displaced by the selective ATI antagonist Cup 742112 A micotinic acid-Tyr-(N.SIGMA-benzyloxycarbonyl-Arg)Lys-His-Pro-IIe-OH) (a conco. eliciting 50% of max. inhibition: 6. times. 10-1-M). This indicated that the ATI receptors in the cerebral artery were of the AT2 subtype. AT may evert its effects on cerebral circulation by stimulation of AT2 receptors, and these receptors may play a role during cerebrovascular development.

subtype. All may exert its effects of increasing a role during cerebrovascular development.

II Characterization of AT2 angiotensin II receptors in rat anterior cerebral arteries

AB Quant. autoradiog. using the agonist 1251-Sarl-antiotensin II was used to localize and characterize angiotensin II (AT) receptors in the anterior cerebral artery of the male rat. This artery showed a moderately high no. of AT. . . may exert its effects on cerebral circulation by stimulation of AT2 receptors, and these receptors may play a role during cerebrovascular development.

ID evelopment. mammalian (angiotensin II receptor of cerebral artery in)

IT Receptors

Re: BIOL (Biological study) (for angiotensin II, AT2. of cerebral artery. characterization of)

IT Artery, composition (cerebral, anterior, angiotensin II receptor of characterization of)

IT Artery, composition (cerebral, anterior, angiotensin II receptor of characterization of)

IT Ill28-99-7. Angiotensin II

11128-99-7. Angiotensin II

RL: BIOL (Biological study)
(receptor for, of cerebral artery, characterization of)

L1 ANSWER 100 OF 123 CAPLUS COPYRIGHT 2003 ACS
1991:490241 Document No. 115:90241 Alterations of monoamine metabolites and neurotransmitters in cerebrospinal fluid of patients after subarachnoid hemorrhage. Sato. Kazuei (Neurol. Inst...
Tokyo Momen's Med. Coll., Tokyo, 162. Japan. Tokyo Joshi Ika Daigaku Zasshi, 61(5), 381-91 (Japanese) 1991. CODEN: TJIZAF. ISSN: 0040-9022.
AB Sequential changes in adrenaline (AD). noradrenaline (NA). dopamine (DA). serotonin (SHT) and their metabolites DOPAC. MHRG. HVA. 5-HIAA and other neuropeptides. GABA. somatostatin-like immunoreactivity (SS). TRH. arginine vasopressin (AV). angiotensin I and II in CSF were confirmed by high performance liq. chromatog. (HPLC) or RIA (RIA) or radio receptor assay (RRA) in 24 patients with SAH 3 times during the course. in the acute stage (GSH) after aneurysmal rupture. Cerebrospinal fluid (CSF) samples were collected from patients with SAH 3 times during the course. in the acute stage (0-3 days after SAH). in the subacute stage (4-19 days), and in the chronic stage (after 20 days). Sequential changes in metabolites. neurol status, and neuroradiog. findings of patients were evaluated. Changes in CSF levels of ND. NA. MHRG. GABA. SS. VP. and AG II were high and those of HVA. 5-HIAA and TRH were low in the acute stage, and gradually converged to the normal range with time. NA. GABA. SS. TRH, and VP were produced mainly in the hypothalamus, and different changes of these substances were considered to be the result of differential activation of brainstem-hypothalamic axis after SAH. A relationship was noted between changes in CSF levels and neurol. status. but not between CSF levels of substances and vol. of clot in subarachnoid space. CSF MHPG levels of the "Spasm" group were significantly higher than the "No spasm" group after 4th day after ictus and CSF NA levels did not differ between the 2 groups, but NA metabolite patimay was therefore considered in the "Spasm" group after 4th day after ictus and CSF NA levels did not differ between the 2

hemorrhage
were confirmed by high performance liq. chromatog. (HPLC) or RIA
(RIA) or radio receptor assay (RRA) in 24 patients with
subarachnoid hemorrhage (SAH) after aneurysmal rupture.
Cerebrospinal fluid (CSF) samples were collected from patients with SAH 3
times during the course. in.
cerebrospinal fluid monoamine metabolite subarachnoid
hemorrhage: neurotransmitter cerebrospinal fluid
subarachnoid hemorrhage
Cerebrospinal fluid
(monoamine metabolites and neurotransmitters in. after

ST

IT

(monoamine metabolites and neurotransmitters in, after

subarachnoid hemorrhage. in humans)

IT

(diseases, subarachnoid hemorrhage, monoamine

ANSWER 101 OF 123 CAPLUS COPYRIGHT 2003 ACS 91.400667 Document No. 115:667 The influence of a cryogenic brain injury on the cerebrovascular response to isoflurane in the rabbit. Ramani. R.: Todd. Michael M.: Warner. David S. (Coll. Med., Univ. Iowa. Iowa City. IA. USA). Journal of Cerebral Blood Flow and Metabolism. 11(3). 388-97 (English) 1991. CODEN: JCBMDN. ISSN: 0271-678X. To det. if an acute neurol. injury alters the cerebrovascular response to isoflurane. rabbits were anesthetized with morphine/N20 and mech. ventilated. Group I animals served as controls and received no injury. In Groups 2 and 3 a 30-s cryogenic injury was produced in the left parietal region using 11q. N2 poured into a funnel affixed to the surface of the skull. Regional cerebral blood flow (CBF) was measured using microspheres. In Groups 2 and 3, flow was detd. before and 30 and 90 min after injury. After the 90-min data were collected. 1% (apprxeq.1.0 MAC) isoflurane was administered to uninjured rabbits in Groups. 1 and to lesioned rabbits in Groups. A mean arterial pressure of .gtoreq.80 mm Hg was maintained during isoflurane administration by an infusion of angiotensin II. In Group 1. 2% isoflurane produced bilaterally sym. increases in hemispheric CBF. from 76 to 150 mL/100 g. CBF in the hindbrain increased from 91 to 248 mL/100 g.cntdot.min. Group 3. 2% isoflurane changed CBF in the lesioned hemisphere from 56 to only 77 mL/100 g.cntdot.min. Group 3. 2% isoflurane changed CBF in the lesioned hemisphere from 56 to only 77 mL/100 g.cntdot.min. While in the contralateral hemisphere. CBF rose from 68 to 97 mL/100 g.cntdot.min. Group 3. 2% isoflurane thanged CBF in the lesioned hemisphere from 56 to only 77 mL/100 g.cntdot.min. While in the contralateral hemisphere. CBF rose from 68 to 97 mL/100 g.cntdot.min. Group 3. 2% isoflurane thanged CBF in the lesioned hemisphere of the damaged hemisphere of the cerebellum. The CBF effects of isoflurane may be mediated via intermediary neurogenic injury abolished the CBF response to changing Pac

The CBF effects of isoflurane may be mediated via intermediary neurogenic and/or blochem, process. The influence of a cryogenic brain injury on the cerebrovascular response to isoflurane in the rabbit. To det. if an acute neurol. injury alters the cerebrovascular response to isoflurane, rabbits were anesthetized with morphine/N2O and mech. ventilated. Group lanimals served as controls and received no. in Group 3. A mean arterial pressure of .gtoreq.80 mm Hg was maintained during isoflurane administration by an infusion of angiotensin II. In Group 1. 2% isoflurane produced bilaterally sym. increases in hemispheric CBF. from 76 to 150 mL/100 g. CBF in. .

Page 45

L1 ANSWER 100 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) metabolites and neurotransmitters in cerebrospinal fluid after. in

humans) 50-67-9. Serotonin. biological studies 51-41-2. Noradrenaline 51-43-4. Adrenaline 51-61-6. Dopamine. biological studies 54-16-0. 5-Hydroxyindole-3-acetic acid. biological studies 56-12-2. gamma.-Aminobutyric acid. biological studies 102-32-9. 3. 4-Dihydroxyphenyl acetic acid 113-79-1. Arginine-vasopressin 306-08-1. Homovantlic acid 534-82-7 9941-90-1. Argintensin I 11128-99-7. Angiotensin II 24305-27-9. TRH 51110-01-1. Somatostatin

SUMALOSCIAL III
RL: BIOL (Biological study)
(in cerebrospinal fluid, after subarachnoid
hemorrhage, in humans)

L1 ANSWER 102 OF 123 CAPLUS COPYRIGHT 2003 ACS
1990:565426 Document No. 113:165426 Aza-2-bicyclooctane[2.2.2]carboxylic
acids. and pharmaceutical compositions containing them. for treatment of
arteritis and disorders of the microcirculation and of the vascular wall.
Teisseire. Bernard (ADIR et Cle., Fr.). Fr. Demande FR 2635684 Al
19900302, 14 pp. (French). CODEN: FRXXBL. APPLICATION: FR 1988-11157

The title compds. I [A = vinylene or dimethylene: q = 0.1: R = lower alkyl capable of carrying amino: X = S and Rl = H: or X = NH and Rl H or CH(COR2)R3 (R2 = 0H. lower alkoy; R3 = H. linear or branched alkyl. or cycloalkyl. or phenylalkyl. etc.)] are provided for treatment of arteritis. esp. of the lower limbs. as well as for treatment of disorders in cerebral circulation, diabetic retinopathy, migraine, etc. Thus. normal and ischemic (ligatured) cremaster muscle prepns. were either untreated or treated with I. There was no difference in red-cell velocity or vessel diam. In normal untreated or treated prepns.: in prepns. with induced ischemia the mean diam. of the arterioles was improved in treated animals in comparison to controls, and red-cell velocity was normalized by treatment for 21 days. Among treated animals. red-cell velocity and blood flow measured 7 days after ligature did not show significant differences from values obtained for nonischemic prepns. A compressed tablet formulation (1000 tablets) contained (S) [(S)-ethoxycarbonyl-i-phenyl-3-propyl amino)-2-oxo-1-propyl]-2-carboxy-3-(S)-azo-2-bicyclo[2.2.2]octane 300 mg, hydroxypropylcellulose 2, wheat starch 10, lactose 100. Mg stearate 3, and tale 3 g.

Senescence (disorder, cerebrovascular, azabicyclooctane carboxylic acids

(dispreer, Cereprovastuar, azabicycloctain earbody) a for treatment of)
9041-90-1. Angiotensin I 11002-13-4. Angiotensinogen (protein renin substrate) 11128-99-7. Angiotensin II
RL: BIOL (Biological Study)
(artery contraction induction by, azabicyclooctane carboxylic acids for microcirculation disorder treatment effect on)

L1 ANSWER 103 OF 123 CAPLUS COPYRIGHT 2003 ACS

Wallace G. J. Jan. 1981. (Cardiovasc. Cent.. CUMC. New York. NY. 10021. USA). Laragh. John H. (Cardiovasc. Cent.. CUMC. New York. NY. 10021. USA). Hypertension. 15(3). 318-26 (English) 1990. CODEN: HPRTON. ISSN: 0194-911X. The effects were studied of regular diet (0.35% NaCl/1.1% potassium) high sodium diet (4% NaCl/0.75% potassium) or bigh sodium and high potassium diet (4% NaCl/0.71% potassium) on blood pressure. plasma renin activity, renal and cerebrovascular lesions. and incidence of stroke and MRSP). In the first 4 wk. the rise in blood pressure was higher in high NaCl than in high NaCl/high potassium or regular diet groups. By 8 and 12 wk. the blood pressure in all 3 groups was similar. After 4 wk of diet, plasma renin activity was similar in the three groups and were not related to sodium excretion. After 8 wk., plasma renin activity was increased only in the high NaCl group, and by 12 wk plasma renin activity was increased only in the high NaCl group, and by 12 wk plasma renin activity was increased only in the high NaCl group, and by 12 wk plasma renin activity was increased only in the high NaCl group than in the high NaCl yout by 8 wk of diet. At 12 wk, renal vascular damage index was higher in the high NaCl group than in the high NaCl group. The increase in mortality, stroke, and renal and cerebrovascular lesions in SIKBS fed a high sodium diet is assocd. with a paradoxical rise in plasma renin activity. The protective effect of high potassium in SIKBS fed a high sodium diet is assocd. with a paradoxical rise in plasma renin activity and thus, angiotensin II in the rats fed a high sodium in the vasculature contributes to the protective effect on end organ damage and stroke in SIKBSP.

3. NaCl/0.75% potassium in the vasculature contributes to the protective effect on end organ damage and stroke in SIKBSP.

3. NaCl/0

RL: PRP (Properties)
(in transgenic fulminant hypertensive rats)

ANSWER 105 OF 123 CAPLUS COPYRIGHT 2003 ACS 90:91660 Document No. 112:91660 The cerebral pressure - flow relationship during 1.0 MAC isoflurane anesthesia in the rabbit: the effect of different vasopressors. Patel. P. M.; Mutch. N. A. C. (Fac. Med., Univ. Manitoba. Winnipeg. MB. Can.). Anesthesiology. 72(1). 118-24 (English) 1990. CODEN: AMESAV. ISSN: 0003-3022.

The effects of different vasopressors on the cerebral pressure-flow relationship during 1.0 MAC isoflurane anesthesia were studied. Mean arterial pressure (MAP) was increased by one of 3 vasopressors [angiotensin II (AT). norepinephrine (NE). or phenylephrine (PE)] in 3 groups of New Zealand white rabbits. Regional cerebral blood flow (CBF) was measured at 5 intervals by the injection of radioactive microspheres at a stable 2.05x (1.0 MAC) end-tidal isoflurane concn. (baseline) and following elevation of MAP by 20, 40, 60, and 80x above baseline MAP with either AT. NE. or PE. Baseline MAP was the same in all groups. No differences in MAP were seen between groups when MAP was elevated from 20 to 80x above baseline. Normocapnia (PaCo2 35.8-38.2 mmHg) was maintained throughout. Total CBF (CBF), hemispheric CBF (hCBF), and posterior fossa (cerebellum and brain stem) CBF (pCBF) were detd. Baseline tCBF, hCBF, and pCBF were similar in all groups. For all regions examo. the slope of the pressure-flow curve was less steep when MAP was elevated with AT vs. NE or PE. There was no difference in slope between the NE and PE groups for any region. Thus, either NE and PE may indirectly result in cerebral vasodilation or AT has intrinsic cerebral vasoconstrictive effects during 1.0 MAC isoflurane anesthesia in the rabbit. The choice of vasopressor critically influences the interpretation of whether cerebrovascular autoregulation is intact during isoflurane anesthesia in the rabbit. The choice of vasopressor critically influences the interpretation of whether cerebrovascular autoregulation is intact during isoflurane anesthesia.

Fig. 1-41-2. Norepinephrine S9-42-7. P

anesthesia. 51-41-2. Norepinephrine 59-42-7. Phenylephrine 11128-99-7. Angiotensin II RL: BIOL (Biological study)

(brain pressure-flow relationship response to. during anesthesia)

- L1 ANSWER 106 OF 123 CAPLUS COPYRIGHT 2003 ACS 1898:068891 Document No. 111:208891 Effects of ONO-3708. an antagonist of the thromboxane AZ/prostaglandin endoperoxide receptor. on blood vessels. Kondo. Kigen: Seo. Rumi: Omawari. Nagashige: Inawaka. Haruo; Wakitani. Korekiyo; Kira. Hefzo: Okegawa. Tadao: Kawasaki. Akiyoshi (Minase Res. Inst.. Ono Pharm. Co., Ltd., Osaka. 618. Japan). European Journal of Pharmacology. 168(2). 193-200 (English) 1989. CODEN: EJPHAZ. ISSN: 0014-2999.
- Pharmacology, 168(2), 193-200 (English) 1989. CUUEN: CUMPAZ. ISSN: 0014-2999. The pharmacol. properties of the TXA2/prostaglandin endoperoxide receptor antagonist NON-3708 on blood vessels were examd. in vitro and in vivo. 0NO-3708 at 10 mm. M inhibited rabbit aortal contractions induced by TXA2. PGKZ. U-46619. or PGFZ.alpha. without affecting the contractions induced by angiotensin II. serotonin or norepinephrine. 0NO-3708 at 1:00 nM was a competitive inhibitor of the contractile responses of the canine basilar artery to 9.11-epithio-11.12-methanthromboxane Az (STAZ). U-46619 and PGFZ.alpha. and a noncompetitive inhibitor of the contractile responses to 15-hydroperoxyeicosatetraenoic acid (15-hPETE). In vivo 0NO-3708 (10 and 100 mm.g/Kg/min i.v.) releaxed the constriction of the basilar artery induced by i.v. infusion of STAZ (0.1. mm.g/Kg/min) in cats. Infusion of NNO-3708 (10 and 30 mm.g/Kg/min i.v.) prevented the cerebral vasospasm in a subarachnoid hemorrhage model in dogs. 0NO-3708 is a potent antagonist of the TXA2/prostaglandin endoperoxide receptor in vitro and in vivo and may be of therapeutic use in preventing cerebral vasospasms.
- vitro and in vivo and may be of therapeutric use in preventing extensions acrossors.

 10 mu.M inhibited rabbit aortal contractions induced by TXA2. PRIZ. U-46619, or PGF2.alpha. without affecting the contractions induced by angiotensin II. serotonin or norepinephrine.

 10NO-3708 at 1-100 mM was a competitive inhibitor of the contractile responses of the canine basilar artery. of STAZ (0.1 mm.g/kg/min) in cats. Infusion of ONO-3708 (10 and 30 mu.g/kg/min iv.) prevented the cerebral vasospasm in a subarachnotd hemorrhage model in dogs. ONO-3708 is a potent antagonist of the TXA2/prostaglandin endoperoxide receptor in vitro and in vivo and may.

- ANSWER 107 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued effect on, in anesthesia, blood pressure in relation to) Blood vessel (Continued)

- Blood vessel

 (constriction of, by angiotensin II and
 norepinephrine, in anesthesia, brain circulation in relation to)

 Circulation
 (regional, of brain, angiotensin II and
 norepinephrine effect on, in anesthesia, blood pressure in relation to)
 51-41-2. Norepinephrine 11128-99-7. Angiotensin II
 R: BIDL (Biological Study)
 (brain circulation response to, in anesthesia, blood pressure in
 relation to)

- ANSWER 107 OF 123 CAPLUS COPYRIGHT 2003 ACS
 39:509555 Document No. 111:109555 Effects of two hypertensive agents.
 norepinephrine and angiotensin II, on the relation
 between arterial pressure and regional cerebral blood flow in conscious
 and anesthetized rabbits. Reynier-Rebuffel, A. M.; Aubineau. P.;
 Issertial. O.; Seylaz, J. (Lab. Physiol. Physionpathol. Cerebrovasc., Univ.
 Peris VII. Paris. 75010, Fr.). Circulation et Metabolisme du Cerveau.
 6(1), 47-55 (French) 1989. CODEN: CMCEM. ISSN: 0264-6900.
 Regional cerebral blood flow reactivity to moderate hypertension induced
 by i.v. perfusion of norepinephrine or angiotensin II
 was compared in unanesthetized or anesthetized rabbits. The reactivity to
 each hypertensive drug varied from one region to another. Compared to
 control. norepinephrine included decreases in local flow of 4 out of 11
 structures examd. whereas angiotensin increased flow in the caudate
 nucleus. Local reactivity depended on the hypertensive agents used.
 Generally. In both anesthetized and unanesthetized animals, norepinephrine
 induced greater increases in cerebrovascular resistance than
 angiotensin. Reactivity was strongly modified by anesthesia. Under
 anesthesia a correlation was obsd. between regional cerebral blood flow
 and increases in blood pressure which did not exist in the unanesthetized
 group. Evidently, the mechanisms regulating regional cerebral blood flow
 during identical rises in blood pressure are not related to the peripheral
 hypertensive action of norepinephrine and angiotensin. This observation,
 together with the regional differences in reactivity found, both in the
 presence and the absence of anesthesia. Suggests that these agents may
 exert specific effects on the cerebral circulation, more complex than
 myogenic or metabolic effects.

 If fects of two hypertensive agents, norepinephrine and angiotensin
 II, on the relation between arterial pressure and regional
 cerebral blood flow in conscious and anesthetized rabbits. The reactivity
 to each hypertensive drug varied from one reg

- Anesthesia

Anesthesia
(angiotensin II and norepinephrine effect on brain circulation and blood pressure in)
Blood pressure
(angiotensin II and norepinephrine effect on. in anesthesia. brain circulation in relation to)

(circulation of, angiotensin II and norepinephrine

- L1 ANSWER 108 OF 123 CAPLUS COPYRIGHT 2003 ACS 1989:112566 Document No. 110:112566 Cerebrovascular angiotensin II receptors in spontaneously hypertensive rats. Grammas. Paula: Diglio. Clement: Giacomelli. Filiberto: Wiener. Joseph (Sch. Med. Wayne State Univ. Detroit. MI. USA). Journal of Cardiovascular Pharmacology. 13(2). 227-32 (English) 1989. CODEN: JCPCDT. ISSN: 0160-2446.
- Joseph (Sch. Med., Wayne State Univ., bettler, through State Univ.

 - role in this model of hypertension.

 Gerebrovascular angiotensin II receptors in

 spontaneously hypertensive rats

 The objective of this study was to characterize angiotensin

 II (AII) receptors in cerebral capillary endothelium and

 to exam. whether the first step in AII responsiveness, namely

 AII receptor binding, is aberrant in creebral microvessels

 obtained from adult spontaneously hypertensive rats (SNR). The binding of

 [3H]angiotensin II to isolated cerebrocortical

 microvessels from Sprague-Dawley, Wistar-Kyoto, and SNR rats was used to

 characterize AII receptors on these vessels. Kinetic expts.

 yery close to that obtained from Scatchard anal. of sath. binding data.

 Thus, the two nomotensive control strains exhibited comparable.

 AII receptor affinity and binding capacity. In contrast, expts.

 with microvessels from adult SNR indicated a higher Bmax for AII

 receptors relative to controls. Although expts, assessing functional

 endothelial alterations in the SNR to AII remain to be

 performed, the increase in AII receptor no. Suggests that an

 abnormality in vascular AII responsiveness may play an important

 role in this model of hypertension.

 angiotensin II receptor microvessel hypertension rat

 Brain

 (angiotensin II receptors of capillary endothelium

ain (angiotensin II receptors of capillary endothelium of, of spontaneously hypertensive rats)

(angiotensin II receptors of cerebral capillary endothelium of spontaneously hypertensive)

```
ANSWER 108 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)
    ceptors
BIOL (Biological study)
(for angiotensin II. of cerebral capillary
endothelium of spontaneously hypertensive rats)
Capillary vessel
(endothelium, angiotensin II receptors of, of brain
    of spontaneously hypertensive rats)
Hypertension
     (spontaneous, angiotensin II receptors of cerebral
capillary endothelium in. in rats)
11128-99-7, Angiotensin II
RL: BIOL (Biological study)
     (receptors for, of cerebral capillary endothelial of spontaneously
     hypertensive rats)
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ANSWER 110 OF 123 CAPLUS COPYRIGHT 2003 ACS
1:448481 Document No. 109:48481 Role of angiotensin in autoregulation of
cerebral blood flow. Paulson. Olaf B: Waldemar, Gunhild: Andersen, Allan
R.: Barry, David I.: Pedersen. Erik V.: Schmidt, Jes F.: Vorstrup. Sissei
(Dep. Neurol., Risshosp., Copenhagen, DK-2100, Den.). Circulation.
Supplement. 77(1). 155-158 (English) 1988. CODEN: CISUAQ. ISSN:
0069-4193.
A perime with 20 cofe on autority.

0069-4193. A review, with 39 refs. on evidence supporting the hypothesis that locally produced angiotensin II contributes to cerebrovascular resistance and thus plays a role in autoregulation of cerebral blood flow. A review, with 39 refs. on evidence supporting the hypothesis that locally produced angiotensin II contributes to cerebrovascular resistance and thus plays a role in autoregulation of cerebral blood flow.

(circulation of, angiotensin II in autoregulation of)

Circulation

cerebral, autoregulation of, angiotensin II in)
11128-99-7. Angiotensin II
RL: BIOL (Biological study)
(cerebral circulation autoregulation by)

- L1 ANSWER 109 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1999:107918 Document No. 110:107918 Enalapril prevents stroke and kidney
 dysfunction in salt-loaded stroke-prone spontaneously hypertensive rats.
 Stier. Charles T. Jr.: Benter. Ibrahim F.: Armad. Saleem: Zuo. Hailiu:
 Selig. Nicola: Roethel. Steven: Levine. Seymour: Itskovitz. Harold D.
 (Dep. Pharmacol., New York Med. Coll., Valhalla, NY. 10595, USA).
 Hypertension. 13(2). 115-21 (English) 1989. CODEN: HPRTDN. ISSN:
- Hypertension, 13(2), 115-21 (English) 1989. CODEN: HPRTON. ISSN: 0194-911X.

 The influence of chronic treatment with the angiotensin I converting enzyme (ACE) inhibitor enalapril on blood pressure. kidney function, and survival was examd. in stroke-prone spontaneously hypertensive rats (SHRSP). Male SHRSP that were fed a Japanese rat chow plus a 1X NaCI drinking soln. beginning at 7-8 wk of age developed severe hypertension and stroke: 14 of 18 untreated control SHRSP died by 14 wk of age and exhibited evidence of cerebrovascular lesions. When enalapril (15 mg/kg/day) was included in the drinking soln. of 15 SHRSP, blood pressure was initially reduced by only a slight degree, whereas survival improved markedly: only one of 10 SHRSP died before the rest were killed at 18 to 21 wk. The remaining five enalapril-treated SHRSP lived beyond 36 wk and on histol. examn. exhibited no evidence of cerebrovascular lesions. Chronic enalapril treatment also prevented the greater urinary excretion of protein and severe renal lesions obsd. in untreated SHRSP but did not affect urinary salt and water excretion. In anesthetized rats, glomerular filtration rate and tubular reabsorption of water were lower in untreated control SHRSP when compared with enalapril-treated SHRSP. Mean arterial pressure was comparable in both groups. These data support a possible role for ACE inhibition in the prevention of stroke and maintenance of kidney function independent of any marked change in blood pressure of SHRSP. Whether the protective effects of ACE inhibition relate to reduced angiotensin II formation, increased tissue kinins, or another mechanism remains to be detd.
- detd. . . . severe hypertension and stroke: 14 of 18 untreated control SHRSP died by 14 wk of age and exhibited evidence of cerebrovascular lesions. When enalapril (15 mg/kg/day) was included in the drinking soln. of 15 SHRSP. blood pressure was initially reduced by. . to 21 wk. The remaining five enalapril-treated SHRSP lived beyond 36 wk and on histol. examin. exhibited no evidence of cerebrovascular lesions. Chronic enalapril treatment also prevented the greater uninary excretion of protein and severe renal lesions obsd. in untreated SHRSP. Whether the protective effects of ACC inhibition relate to reduced angiotemsin II formation. increased tissue kinins. or another mechanism remains to be detd.

L1 MNSWER 111 OF 123 CAPLUS COPYRIGHT 2003 ACS
1988:144167 Document No. 108:144167 Effect of angiotensin
II and peptide YY on cerebral and circumwentricular blood flow.
Twor. U. 1.: Kondysar. M. H.: Harding. R. K. (Dep. Physiol.. Univ. Ottawa.
Ottawa. ON. KIH 845. Caru.). Peptides (New York. NY. United States). 9(1).
141-9 (English) 1988. CODEN: PPTDD5. ISSN: 0196-9781.

AB The effect of acute i.v. infusion of saline. angiotensin
II. or peptide YY on local cerebral blood flow
([14C]lodoantipyrine autoradiog.) in the circumventricular and
noncircumventricular brain regions of conscious rats was examd. No redns.
in brain blood flow (28 regions) were obsd. although angiotensin
II and peptide YY infusion elevated arterial blood pressure 15-265
without influencing heart rate, suggesting an increase in peripheral
resistance. However. local blood flow was dependent on the peptide
infused. During peptide YY infusion. blood flow was rather const. in the
20 noncircumventricular regions examd. whereas an increase in blood flow
and a slight decrease in cerebrovascular resistance courred in
the circumventricular regions. The area postrema exhibited the most
pronounced changes - an elevation in blood flow of 448 and a redn. in
resistance of 20% in comparison with values for control animals. During
angiotensin II infusion. local cerebral blood flow was
similar to that in controls and local cerebral blood flow was
similar to that in controls and local cerebral proprocurate of the region examd.
(circumventricular or noncircumventricular) and on the vasoactive peptide
infused.
II Effect of anglotensin II and peptide YY on cerebral

(circumventricular or noncircumventricular) and on the vasoactive peptide infused.

Effect of angiotensin II and peptide YY on cerebral and circumventricular blood flow the effect of acute i.v. infusion of saline, angiotensin II. or peptide YY on local cerebral blood flow ([14C]iodoantipyrine autoradiog.) in the circumventricular and noncircumventricular brain regions of conscious rats was examd. No redns. in brain blood flow (28 regions) were obsd. although angiotensin II and peptide YY infusion elevated arterial blood pressure 15-25% without influencing heart rate. suggesting an increase in peripheral resistance. However. ... was rather const. in the 20 noncircumventricular regions examd. whereas an increase in blood flow and a slight decrease in cerebrovascular resistance occurred in the circumventricular regions. The area postrema exhibited the most pronounced changes - an elevation in blood flow of 44% and a redn. in resistance of 20% in comparison with values for control animals. During angiotensin II infusion. local cerebral blood flow was similar to that in controls and local cerebrovascular resistance was elevated. Thus, the local cerebral circulatory response to peptide administration was dependent on the location of the region. Blood pressure (angiotensin II and peptide YY effect on, brain circulation in relation to)

Brain (Circulation of anointensin II and peptide YY

Brain (circulation of, angiotensin II and peptide YY

IT Blood vessel

L1 ANSWER 111 OF 123 CAPLUS COPYRIGHT 2003 ACS (contraction of. of brain, angiotensin II and peptide YY effect on) (Continued) rculation (of circumventricular and noncircumventricular regions, angiotensin II and peptide YY effect on) Brain

(Circumventricular organ. circulation of. angiotensin

II and peptide YY effect on)

11128-99-7. Angiotensin II 106388-42-5. Peptide YY

RL: BIOL (Biological Study)

(brain circumventricular and noncircumventricular region circulation response to)

- ANSWER 112 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued) RL: BIOL (Biological study)
 (cerebral artery relaxation by, hemolyzate inhibition of)

- Page 49

 L1 ANSWER 112 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1988:144109 Document No. 108:144109 Hemolyzate inhibits cerebral artery relaxation. Toda. Noboru (Dep. Pharmacol.. Shiga Univ. Med. Sci.. Otsu. 520-21. Japan). Journal of Cerebral Blood Flow and Metabolism, 8(1). 46-53 (English) 1988. CODEN: JCBMDN. ISSN: 0271-678X.

 AD In helical strips of dog middle cerebral arteries partially contracted with PGF2.alpha.. relaxations induced by angiotensin II. possibly mediated by PGi2, and those induced by PGHZ were reversed to a contraction or markedly reduced by treatment with hemolyzate. which however, attenuated the PGI2-induced relaxation only slightly. The relaxant response of human middle cerebral arterial strips to PGi2 was also suppressed by hemolyzate. Dog and monkey middle cerebral arteries responded to transmural elec. stimulation and nicotine with transient relaxations, which were quite susceptible to tetrodotoxin and hexamethonium, resp.: the relaxations were abolished almost completely by hemolyzate and methylene blue. One the other hand, the relaxant response of dog cerebral arteries to a low concn. of K+ was not influenced by hemolyzate or by methylene blue. but was reversed to a contraction by treatment with ousbain. Relaxations induced by substance P and nitroglycerin were markedly inhibited by hemolyzate: removal of endothelium abolished the relaxations induced by substance P and nitroglycerin-induced relaxation. Hemolyzate may interfere with the biosynthesis of PGI2 in the vascular wall, thereby reversing the relaxation induced by angiotensin II and PGi2 to a contraction. Relaxations induced by elec. and chem. stimulation of vasodilator nerves innervating cerebral arteries appear to be elicited by a mechanism dependent on cellular cGMP. like that underlying the substance P-induced and nitroglycerin-induced relaxation. These actions of hemolyzate may be involved in the genesis of cerebral vasospasm after subarachnoid hemorrhage.

 AB In helical Strips of dog middle cerebral arteries appear to. . the s

 - Meninges
 (diseases, subarachnoid hemorrhage, vasospasm
 after, cerebral artery relaxation by hemolyzate in relation to)
 54-11-5, Nicotine 55-63-0, Nitroglycerin 7440-09-7, Potassium.
 biological studies 11128-99-7, Angiotensin II
 33507-63-0, Substance P 42935-17-1, PGH2
- L1 ANSWER 113 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1988:69671 Document No. 108:69671 Cerebrovascular reactivity to
 angiotensin and angiotensin-converting enzyme activity in cerebrospinal
 fluid. Whailey. E. T.; Wahl. M. (Dep. Physiol., Univ. Munich, Munich,
 D-8000/2. Fed. Rep. Ger.). Brain Research. 438(1-2). 1-7 (English) 1988.
 CODEN: BRREAP. ISSN: 0006-8993.
 AB The vasomotor effects of angiotensin I (A I) and angiotensin
 II (A II) were examd. in feline cerebral arteries and
 angiotensin-converting enzyme (ACE) activity was detd. in the vessel wall
 and cerebrospinal fluid (CSF). A II (10-8-10-5M) induced concn.-dependent
 contractions of feline pial arteries (resting diam. 98-286 mu. m) in situ
 with a max. of 34x at 10-4M A II. A I produced dose-related contractions
 being approx. 20 times less potent than A II. The action of A I was
 attenuated by the ACE inhibitor captopril (10-5M). These frindings
 demonstrate the presence of ACE activity in the vessel wall and/or its
 surroundings. ACE activity was also found in feline CSF sampled from the
 cisterna cerebello-medullaris. Bradykinin (BK) was broken down and A I
 converted to A II by CSF, both effects being inhibited by captopril. This
 was demonstrated using bioassay and HPLC. Thus. the presence of ACE in
 the vessel wall and CSF is necessary for the conversion of A I to A II.
 Although ACE in CSF is able to degrade BK, it appears not to be important
 for the metab. of BK acting from the perivascular side of pial arteries in for the metab. of BK acting from the perivascular side of pial arteries in
- Cerebrovascular reactivity to angiotensin and
- Lerebrovascular reactivity to angiotensin and angiotensin-converting enzyme activity in cerebrospinal fluid The vasomotor effects of angiotensin I (A I) and angiotensin II (A II) were examd. In feline cerebral arteries and angiotensin-converting enzyme (ACE) activity was detd. in the vessel wall
- Cerebrospinal fluid
 - (angiotensin-converting enzyme of, cerebrovascular response

 - (anglotensin-converting enzyme of . Cerebrowscata response to anglotensins in relation to)
 9041-90-1. Anglotensin I 11128-99-7. Anglotensin II
 RL: BIOL (Biological study)
 (cerebrowscular response to. anglotensin-converting enzyme of cerebrospinal fluid in relation to)
 9015-82-1. Anglotensin converting enzyme
- - RL: BIOL (Biological study) (of cerebral blood vessels and cerebrospinal fluid, angiotensins cerebrovascular effects in relation to)

- L1 ANSWER 114 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1987:513591 Document No. 107:13591 Nonuniformity of CBF response to NE- or ANG II-induced hypertension in rabbits. Reynter-Rebuffel. Anne Marie: Aubineau, Pierre: Issertial, Odile: Seylaz, Jacques (Lab. Physiol. Physiopathol. Cerebrovasc., Fac. Med., Paris., 75010. Fr.). American Journal of Physiology, 253(1. Pt. 2). H87-H57 (English) 1987. CODEN: AJPHAP. ISSN: 0002-9513.

 AB The regional response of brain vasculature to moderate hypertension was investigated using 2 hypertensive drugs norepinephrine (NE) and angiotensin II (ANG II), infused i.v. at low concns. (increase in blood pressure 15-40 mmHg). Regional cerebral blood flow was measured in unanesthetized and anesthetized rabbits using the [14C] ethanol sath. technique. In both groups of animals. NE and ANG II induced regional differences in the flow changes as compared with controls. confirming a regional (or segmental) heterogeneity in the regulatory mechanisms to hypertension. The responses to identical rises in blood pressure (BP) in most of the structures analyzed depended on the drug used. In the unanesthetized rabbits, the increase in vascular resistance induced by NE was greater than that induce by ANG II. With the 2 drugs, there was no correlation between the flow changes in any of the structures considered and either the BP increase or the BP level in unanesthetized animals. However, these flow changes were correlated with the BP increase in anesthetized animals, although differences between the effects of NE and ANG II were again obsd. Apparently, cerebrovascullar regulatory mechanisms in hypertension are probably more complex than a simple myogenic reaction. Their heterogeneity and their dependence both on the cause of hypertension and on the presence of anesthetics suggest the intervention of an integrating pathway.

 AB The regional response of brain vasculature to moderate hypertension was investigated using 2 hypertensive drugs norepinephrine (NE) and angiotensin II (ANG II), infused i.v. at lo

II hypertension brain blood flow

(circulation in regions of, in hypertension induced by angiotensin II or norepinephrine, nonuniformity of) Hypertension

(from angiotensin II or norepinephrine, circulation in brain regions in, nonuniformity of)

Anesthesia

in brain regional blood flow nonuniform response to hypertension induced by angiotensin II or norepinephrine)

- ANSWER 115 OF 123 CAPLUS COPYRIGHT 2003 ACS 37:189820 Document No. 106:189820 Specific binding of atrial natriuretic factor in brain microvessels. Chabrier, Pierre E.; Roubert. Pierre; Braquet. Pierre (Res. Lab., Inst., Henri Beaufour, Les Ulis., 91940, Fr.). Proceedings of the National Academy of Sciences of the United States of America. 84(7). 2078-81 (English) 1987. CODEN: PNASA6. ISSN: 0027-8424. The binding of 1251-labeled rat atrial natriaretic factor (99-126) (1) (88998-17-3) to pure bovine cerebral microvessel prepns. was examd. Satn. and competition expts. demonstrated the presence of a single class of 1-binding sites with high affinity (dissoon. const... appx.10-10M) and with a binding capacity of 58 fmol/mg of protein. The binding of radiolodinated I to brain microvessels was specific. reversible. and time dependent. as was shown by assoon. -dissoon. expts. The demonstration of specific 1-binding sites on brain microvessels supposes a physiol. role of 1 on brain microvasculature. The coexistence of I and angiotensin II receptors on this cerebrovascular tissue suggests that the 2 circulating peptides may act as mutual antagonists in the regulation of brain microvisculature. The coexistence of an adagonists in the regulations in II receptors on this cerebrovascular tissue supposes a physiol. role of I on brain microvasculature. The coexistence of I and angiotensin II receptors on this cerebrovascular tissue suggests that the 2 circulating peptides may act. The coexistence of I and angiotensin II receptors on this cerebrovascular tissue suggests that the 2 circulating peptides may act as mutual antagonists in the regulation of brain microvasculature. The coexistence of I and angiotensin II receptors on this cerebrovascular tissue suggests that the 2 circulating peptides may act as mutual antagonists in the regulation of brain microvasculature.
- blood-brain.

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ANSWER 114 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

(of brain regions. in hypertension induced by angiotensin
II or norepinephrine. nonuniformity of)

- L1 AMSWER 116 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1985:516893 Document No. 103:116893 Intrinsic and extrinsic mechanisms
 involved in the cerebrovascular reaction elicited by
 immobilization stress in rabbits. Pinard. E.: Lacombe, P.:
 Reynier-Rebuffel, A. M.: Seylaz, J. (Lab. Physiol. Physiopathol.
 Cerebrovasc., Univ. Paris VII. Paris, Fr.). Brain Research. 340(2).
 305-14 (English) 1985. COOEN: BRREAP. ISSN: 0006-8993.
 AB Variations in cerebral blood flow pO2, and pCO2 were studied in rabbits
 during short-duration (1-min) immobilization stress. The techniques were
 used to det. these variables locally in the caudate nucleus in a
 continuous, simultaneous, and quant. fashion. Cerebral blood flow and
 arterial blood pressure increased in parallel immediately after inducing
 the stress reaction, and that pO2 increased further, indicating that
 cerebral 0 supply is maintained by the hyperemia. Previous administration
 of a beta-receptor blocker or of a cholinergic receptor blocker
 significantly diminished the cerebrovascular reaction to stress,
 inducing a decrease in pO2 during the reaction. Administration of both
 blockers nearly abolished the cerebral vasodilation studied. Previous
 administration of an alpha-receptor blocker enhanced the reactive
 hyperemia. No disturbance of the blood-brain barrier could be obsd. in
 rabbits subjected to stress. Injection of adrenaline [51-43-4], as well
 as angiotensin II [11128-99-7] inducing similar
 increases in blood pressure, had no comparable effect on the blood flow.
 In this model of anxiety, neurogenic mechanisms are evidently involved in
 the provision of a sufficient O supply to the brain.
 Il intrinsic and extrinsic mechanisms involved in the cerebrovascular
 reaction elicited by immobilization stress in rabbits

 AB . is maintained by the hyperemia. Previous administration of a
 . beta-receptor blocker or of a cholinergic receptor blocker significantly
 diminished the cerebrovascular reaction to stress, inducing a
 decrease in pO2 during the reaction. Administration of both blockers
 nearl

restraint stress receptor Receptors RL: BIOL (Biological study)

(cholinergic, cerebrovascular systems in restraint stress regulation by)

IT Stress, biological

(restraint, cerebrovascular system in, receptor regulation

Receptors RL: BIOL (Biological study) (.alpha.-adrenergic, cerebrovascular systems in restraint stress regulation by)

- ANSWER 118 OF 123 CAPLUS COPYRIGHT 2003 ACS 5:89883 Document No. 102:89883 Cerebrovascular aspects of converting-enzyme inhibition. I: effects of intravenous captopril in spontaneously hypertensive and normotensive rats. Barry. David I.; Jarden, Jens O.: Paulson, Olaf B.; Graham, David I.; Strandgaard, Svend (Dep. Psychiatry. Rigshosp., Copenhagen, DK-2100, Den.). Journal of Hypertension, 2(6), 589-97 (English) 1984. CODEN: JOHYO3. ISSN: 10563-6352
- Hypertension, 2(b), 599-97 (English) 1994. CLUDEN: JUSTIA). ISSN: 0263-6352.

 The cerebrovascular effects of angiotensin-converting enzyme [9015-82-1] inhibition were examd. In normotensive and hypertensive rats. Cerebral blood flow was measured using the intracarotid 133% injection method in halothane/N2O-anesthetized animals. Following i.v. administration of captopril [62571-86-2] (10 mg/kg), cerebral blood flow was unchanged from baseline levels. both the lower and upper limits of autoregulation were reset to lower mean arterial pressure and the autoregulation were reset to lower mean arterial pressure and the autoregulation y plateau was shortened. The lower limits of autoregulation y plateau was shortened. The lower limits was shifted 20-30 mm Hg. The upper limit 50-60 mm Hg. and the plateau shortened by 20-40 mm Hg. The effect resulted from compensatory autoregulatory constriction of small resistance vessels in the brain following captopril-induced dilatation of large resistance vessels. Thus, locally produced angiotensin II might play a role in the resistance of large cerebral arteries. Cerebrovascular aspects of converting-enzyme inhibition. I: effects of intravenous captopril in spontaneously hypertensive and normotensive rats.
- normotensive rats
- nommotensive rats
 The cerebrovascular effects of angiotensin-converting enzyme
 [9015-82-1] inhibition were examd. in normotensive and hypertensive rats.
 Cerebral blood flow was measured using the. . . . compensatory
 autoregulatory constriction of small resistance vessels in the brain
 following captopril-induced dilatation of large resistance vessels. Thus,
 locally produced angiotensin II might play a role in
 the resistance of large cerebral arteries.

L1 ANSWER 117 OF 123 CAPLUS COPYRIGHT 2003 ACS
1985:179799 Document No. 102:179799 Cerebral vasomotor action of
angiotensin II. Reynier-Rebuffel. A. M.: Aubineau. P.
F.: Pinard. E.: Meric. P.: Seylaz. J. (Lab. Physiol. Physiopathol.
Cerebrovasc.. Univ. Paris VII. Paris, 75010. Fr.). Circulation et
Metabolisme du Cerveau. 1(3). 251-8 (French) 1984. CODEN: CMCCEN. ISSN:
0264-6900. O264-6900.

Unilateral infusion of angiotensin II [11128-99-7]
into the carotid artery of rabbits produced a generalized decrease in cerebral blood flow with a rise in cerebrovascular resistance of 13-41% depending on the area examd. Evidently, angiotensin II has an indirect action on cerebrovascular morticity.

Cerebral vasomotor action of angiotensin II [11128-99-7] into the carotid artery of rabbits produced a generalized decrease in cerebral blood flow with a rise in cerebrovascular resistance of 13-41% depending on the area examd. Evidently, angiotensin II has an indirect action on cerebrovascular motricity.

Angiotensin II circulation brain Brain Brain (circulation of, angiotensin II effect on) ΙT Blood vessel (motricity of, of brain cerebrum, angiotensin II effect on) Circulation (of brain, angiotensin II effect on)

- L1 ANSWER 119 OF 123 CAPLUS COPYRIGHT 2003 ACS

 1983:465089 Document No. 99:65089 Generalized cerebral vasoconstriction induced by intracarotid infusion of angiotensin II in the rabbit. Reynier.Rebuffel, Anne Marie: Pinard. Elisabeth: Aubineau. Pierre Frederic: Meric, Philippe: Seylaz, Jacques (Lab. Physiol. Physiopathol. Cerebrosvasc., Univ. Paris VII. Paris, 75010, Fr.). Brain Research, 259(1), 91-010 (English) 1983. CODEN: BRREAP. ISSN: 0006-8993.

 AB The influence of angiotensin II (I) (11128-99-71. perfused into 1 common carotid artery at 0.655. mu.g/kg/min. on cerebrovascular resistance was investigated in the anesthetized rabbit by complementary in vivo methods. Heat clearance and mass spectrometry measurements indicated that in the homolateral caudate nucleus I decreased local blood flow (18.2x). decreased p02 (14.2x), and had no effect on p020. The [14.0E100 titssue sampling technique revealed a decrease in flow in all 10 structures sampled in the brain. This decrease was similar in magnitude in both the ipsilateral and the contralateral hemisphere with regard to the site of injection. When expressed in terms of cerebrovascular resistance (CVR) and allowing for a slight increase in blood pressure (c10x), these results show that I infusion induced an increase in (CVR of 18-32x. Thus, a unilateral intracarotid infusion of a low dose of I induces an increased vascular tone in all cerebral structures and this action, being bilateral, cannot readily be explained by a direct action of I on the cerebral vessels in view of the very low recirculating concn. of I. The hypothesis of a cerebral vascomotor influence of 1 by action on a central structure is discussed. Generalized cerebral vascomotriction induced by intracarotid infusion of angiotensin II in the rabbit

 AB The influence of angiotensin II (I) [11128-99-71. perfused into I common carotid artery at 0.065. mu.g/kg/min, on cerebrovascular resistance was investigated in the anesthetized rabbit by complementary in vivo methods. Heat clearance and mass spect

- (constriction of, from angiotensin II in brain cerebrum)
- Circulation
 (of brain cerebrum, angiotensin II effect on)

ANSWER 120 OF 123 CAPLUS COPYRIGHT 2003 ACS
:557186 Document No. 97:157186 Prostacyclin and cerebral vessel relaxation. Paul. Kamal S.: Whalley. Eric T.: Forster. Christine: Lye. Richard: Dutton. John (Manchester R. Infirm., Univ. Manchester. Manchester. UK). Journal of Neurosurgery. 57(3), 334-40 (English) 1982. CODEN: JONSAC. ISSN: 0022-3085.

The ability of prostacyclin (I) [35121-78-9] to reverse contractions of human basilar arteries in vitro that were induced by a wide range of substances implicated in the etiol. of cerebral arterial spasm was examd. I (10-10-10-6M) caused a dose-related reversal of contractions induced by 5-HT [50-67-9], noradrenaline [51-41-2], angiotensin II [11128-99-7]. PGF2-alpha. [551-11-1], and U-46619 [5595-40-1]. These agents were tested at concns. or vols. that produced almost max. or max. responses and those that produced approx. 50% of the max. response. Contractions induced by max. concns. of angiotensin II and U-46619 were least affected by I. In addn.. contractions induced by TAX2 [57876-52-0] generated from guinea pig lung were reversed in a dose-dependent fashion by I. This ability of I to physiol. antagonized contractions of the human basilar artery in vitro induced by high concns. of various spasmogenic agents suggests that such a potent vasodilator agent or more stable analog may be of value in the treatment of such disorders as cerebral arterial gasm following subarachnoid hemorrhage.

the treatment of such disorders as cerebral arterial spasm following subarachnoid hemorrhage.

. of cerebral arterial spasm was examd. I (10-10-10-6H) caused a dose-related reversal of contractions induced by 5-HT [50-67-9]. noradrenaline [51-41-2], angiotensin II [11128-99-7], PGF2.alpha. [551-11-1]. and U-46619 [56985-40-1]. These agents were tested at concris. or vols. that produced almost max. or max. responses and those that produced approx. 50% of the max. response. Contractions induced by max. concris. of angiotensin II and U-46619 were least affected by 1. In addin. contractions induced by TX2 [57576-52-0] generated from guinea pig lung were. . agent or more stable analog may be of value in the treatment of such disorders as cerebral arterial spasm following subarachnoid

L1 ANSWER 121 OF 123 CAPLUS COPYRIGHT 2003 ACS
1982:538371 Document No. 97:138371 Reversal of experimental acute cerebral vasospasm by angiotensin converting enzyme inhibition. Andrews, Philip; Papadakis, Mitcholas; Gavras, Haralambos (Dep. Med., Boston Univ., Boston, MA. 02118, USA). Stroke, 13(4), 480-3 (English) 1982. CODEN: SJCCA7.

ISSN: 0039-2499. teprotide [35115-60-7]. An angiotensin converting enzyme inhibitor, partially or totally reversed the acute arterial spasm induced in dogs by intractsternal introduction of autologous blood. Thus, angiotensin II [11128-99-7] may play a role in the crebral vasospasm obsd. following introduction of blood into the subaracknoid space and converting enzyme inhibitors may be clin, useful in the prevention or reversal of cerebral arterial spasm following subaracknoid pengrhage.

the prevention or reversal of cerebral arterial spasm following subarachnoid hemorrhage.

. . . enzyme inhibitor. partially or totally reversed the acute arterial spasm induced in dosp by intracisternal introduction of autologous blood. Thus, angiotensin II [11128-99-7] may play a role in the cerebral vasospasm obsd. following introduction of blood into the subarachnoid space and converting enzyme inhibitors may be clin. useful in the prevention or reversal of cerebral arterial spasm following subarachnoid hemorrhage. angiotensin vasospasm subarachnoid hemorrhage: teprotide brain vasospasm inhibition Artery. disease or disporder

Artery, disease or disorder (spasm, from subarachnoid hemorrhage, teprotide prevention of) 11128-99-7

IT

RL: BIOL (Biological study)
(in vasospasm from subarachnoid hemorrhage)
35115-60-7

RL: BIOL (Biological study) (vasospasm from subarachnoid hemorrhage prevention ANSWER 120 OF 123 CAPLUS COPYRIGHT 2003 ACS (Continued)

ANSWER 122 OF 123 CAPLUS COPYRIGHT 2003 ACS 12:504042 Document No. 97:104042 Reversal of experimental delayed cerebral vasospasm by angiotensin-converting enzyme inhibition. Gavras. Haralambos: Andrews. Philip: Papadakis. Nicholas (Boston City Hosp.. Boston Univ.. Boston. MA. USA). Journal of Neurosurgery. 55(6). 884-8 (English) 1981. COCORN: JONSAC. ISSN: 0022-3085. Delayed cerebral arterial spasm was documented by angiog. 72 h after introduction of blood in the subarachnoid space of dogs. Following injection of the angiotensin-converting enzyme inhibitor. teprotide (1) (35115-60-7), repeat cineangiograms at 30. 60, and 90 min demonstrated partial or total release of spasm of the basilar artery and its branches. Thus angiotensin II [11128-99-7] participates in the delayed cerebral vasospasm after hemorrhage, and angiotensin inhibition may release the spasm and prevent cerebral ischemia.

. . . 30. 60. and 90 min demonstrated partial or total release of spasm of the basilar artery and its branches. Thus angiotensin inhibition fil [11128-99-7] participates in the delayed cerebral vasospasm after hemorrhage, and angiotensin inhibition may release the spasm and prevent cerebral ischemia. cerebral vasospasm subarachnoid hemorrhage teprotide: angiotensin converting enzyme cerebral vasospasm Hemorrhage.

Hemorrhage

Hemorrhage
(subarachnoid, vasospasm from, teprotide reversal of,
angiotensin II in relation to)
Artery, disease or disorder
(cerebral, spasm, from subarachnoid hemorrhage,
teprotide reversal of, angiotensin II in relation

Brain, disease or disorder (vasospasm. from subarachnoid hemorrhage. teprotide reversal of. angiotensin II in relation to)

11128-99-7

ΙT

RL: BIOL (Biological study)
(cerebral vasospasm from subarachnoid hemorrhage in relation to)

35115-60-7

SILE-00-7
RL: BIOL (Biological study)
(cerebral vasospasm from subarachnoid hemorrhage reversal by, angiotensin II in relation to)

- 1.1 ANSWER 123 OF 123 CAPLUS COPYRIGHT 2003 ACS
 1982:46604 Document No. 96:46604 The effect of inhibition of dopamine. beta. hydroxylase on cerebrovascular carbon dioxide and autoregulation. Kobayashi. S.: Kitamura. A.: Furuhashi. N.: Kanda. T.: Tazaki, Y. (Dep. Internal Med., Shimane Med., Liny., Izumo. 693. Japan). Pathophysiol. Pharmacother. Cerebrovasc. Disord., Satell. Symp.. 2nd. 48-51. Editor(s): Betz. E.: Grote. J.: Heuser. D. Mitzstrock: Baden-Baden. Fed. Rep. Ger. (English) 1980. COMEN: 465XMH.

 AB To det. the importance of the noradrenergic nervous system for the regulation of CO2 reactivity and autoregulation, the effect of fusaric acid. a dopamine. beta.-hydroxylase inhibitor. was studied in cats. The increase of thalamic blood flow in response to raised arterial CO2 (induced by inhalation of 58 CO2) was greater after than before fusaric acid infusion. The CO2 reactivity index increased from 4.74 to 8.31. with no increase in mean arterial blood pressure. In hypotension induced by exsanguination. the autoregulation index decreased in both the subcortex and medulla in response to fusaric acid. In hypertension induced by angiotensin II. Insaric acid altered, neither medullarion during hypercapnia. and may participate in cerebrovascular dilation during hypercapnia. and may participate in cerebrovascular autoregulation during hypetension.

 The effect of inhibition of dopamine-.beta.-hydroxylase on cerebrovascular carbon dioxide and autoregulation index decreased in both the subcortex and medulla in response to fusaric acid. In hypertension induced by angiotensin III. fusaric acid altered, neither medullary blood flow nor the autoregulation index decreased in both the subcortex and medulla in response to fusaric acid. In hypertension induced by angiotensin III. fusaric acid altered.

 neither medullary blood flow nor the autoregulation index. Thus. the noradrenergic system may have an inhibitory action in index. Thus. the noradrenergic system may have an inhibitory action in index. Thus. the noradrenergic